Year 2006 Annual Monitoring Report

Breakfast Point Mitigation Bank

Bay County, Florida

Prepared for:

Breakfast Point Mitigation Bank,
St. Joe Company

Submitted to:

The Florida Department of Environmental Protection
Mitigation Bank Instrument Number 0227473-001

U.S. Army Corps of Engineers
Mitigation Bank Instrument Number SAJ-2004-1865

U.S. Fish and Wildlife Service

St. Joe Company

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YEAR 2006 ANNUAL MONITORING REPORT

Results from the 2006 Monitoring at Breakfast Point Mitigation Bank

BREAKFAST POINT MITIGATION BANK
BAY COUNTY, FLORIDA
ACOE Permit No.: SAJ-2004-1865
FDEP Permit No.: 0227473-001

Applicant: Breakfast Point Mitigation Bank
St. Joe Company
Jacksonville, Florida

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U.S. Army Corps of Engineers

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Summary
Management of the Breakfast Point Mitigation Bank (BPMB) continued in 2006. Restoration activities, annual monitoring, evaluation of data, and report writing were carried out as per the BPMB instrument. The purpose for these actions was the continued restoration of the landscape and the assessment of biological responses to restoration activities. Results were compiled and evaluated with respect to measuring landscape changes and assessing progress toward performance criteria. Two comprehensive tables (Appendix A) restate the interim and final performance criteria for each phase, report the corresponding results, and assess the status and trend in each case. Tables 1 and 2 (in the document below) report the schedule of current and future activities and proposed credit releases, respectively. Restoration activities have progressed successfully with positive results, and all performance standards are trending toward success.

I. PROJECT OVERVIEW

Breakfast Point Mitigation Bank began management in 2004 and is comprised of 5,031 acres, most of which shows signs of pine planting and/or fire suppression associated with silviculture. Historic 1942 aerials suggest a landscape dominated by wet savanna, swamp and marsh (freshwater and brackish) habitats. Management of the site has been divided into four areas (Phase 1, Phase 2, Phase 3, and Phase 4) to facilitate restoration activities and credit releases. For specific discussions of site history, landscape characteristics, goals and objectives, and materials and methods see First Annual Monitoring Report – Baseline (2004).

Baseline monitoring was completed for all phases in 2004. With respect to restoration activities, Phases 1 and 2 are currently in active management and proceeding successfully; activities in Phases 3 and 4 are pending (see Schedule of Tasks, Table I). Prescribed burns have been conducted and mechanical treatments have been implemented in both phases; however, further treatments have yet to be completed in Phase 2 (see Figure 3). Annual monitoring has been conducted in Phases 1 and 2 to evaluate the effects of restoration activities with respect to performance criteria.

Purpose

The following is an Annual Report of restoration and monitoring results for Breakfast Point Mitigation Bank, 2006. The report provides restoration and monitoring results and an analysis of these results with respect to the performance standards (as per the Breakfast Point Mitigation Bank / MBI / Mitigation Plan Documentation, 2005). Semiannual progress reports for 2006 are also included (Attachment E).

Location, Perimeter, Directions

The Breakfast Point Mitigation Bank site is in the West Bay Watershed, approximately 0.5 mile north of U.S. Hwy 98 and 2 miles east of SR 79, Bay County, FL (Figure 1). The U.S. Hwy 98 / West Bay Bridge is located approximately 1 mile to the east. West

Bay comprises the northern boundary of the site. The site is bordered by private lands to the east, west, and south.

Restoration and Maintenance Activities

Restoration and maintenance activities have progressed successfully in 2006. (see Table 1 for a complete list of activities and their status; see also the semiannual reports in Appendix D). Through a combination of mechanical treatments (e.g. roller chopping and walk down) and prescribed burns, canopy was reduced in the areas treated. Exotic plant species [e.g. torpedo grass (*Panicum repens*) and Chinese tallow tree (*Sapium sebiferum*)] were also reduced by treatments with herbicide, and 101 hogs (*Sus scrofa*) were physically removed from the site.

- **Phases 1 and 2**

  Burning, logging, and brush reduction activities were completed for Phase 1. Phase 2 will require additional mechanical reduction, which is planned for completion in 2007. These activities will proceed as weather and conditions allow in 2007. Exotic species were treated and removed in both phases, and monitoring activities were completed for both phases as well (see Table 1).

- **Phases 3 and 4**

  In March 2006 FDEP issued the first credit release for Phase 1 and 2. The release activity Record Conservation Easement, Financial Assurances (Permit Sections III-d and III-E) was successfully implemented and thus, the Phases implemented. Activities in 2006 focused on works within Phases 1 and 2. The mechanical and burning work for Phase 1 was completed while Phase 2 will be continued in 2007. Currently, it is expected Phase 3 will come on line (pending review by FDEP of the initiation release) sometime in 2008, followed by Phase 4 in 2009.

- **Adjustment to Methods**

  We have implemented a change in methods used to estimate tree densities (First Annual Monitoring Report – Baseline, 2004, p. 12). The 10 x 10m Plot Method used for nonrandomly spaced trees (e.g. planted pine) has been replaced with a Tenth Acre Plot Method to achieve more realistic estimations when trees are at low densities (e.g. as a result of mechanical reductions).

Table I. Schedule of Tasks, BPMB

Phase	Task	Years							
		2004	2005	2006	2007	2008	2009	2010	2011
1	Financial Assurance & Conservation Easement		x						
1	Selective Logging\ Vegetation Removal (as needed)		Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec
1	Hazard Reduction Burn (as needed)		Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec
1	Photodocument Prescribed Burn		Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec
1	Prescribed Burn (as needed)		Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec
1	Hydrologic Improvments				Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec
1	Exotic Species Identification and Location (as needed)		Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec
1	Exotic Control and Removal (as needed)		Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec
1	Establish Quantitative Vegetative Monitoring Transects	Jan-Dec							
1	Bi-Monthly Permit Compliance Inspections		Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec
1	Annual Vegetative Monitoring	Sept-Dec	Sept-Dec	Sept-Dec	Sept-Dec	Sept-Dec	Sept-Dec	Sept-Dec	Sept-Dec
1	Biannual Progress Report		Jan, July	Jan, July	Jan, July	Jan, July	Jan, July	Jan, July	Jan, July
1	Annual Report		Jan	Jan	Jan	Jan	Jan	Jan	Jan
1	Hydrologic Monitoring		Baseline Jan-Dec	Baseline Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	
2	Financial Assurance & Conservation Easement		x						
2	Selective Logging\ Vegetation Removal (as needed)		Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec
2	Hazard Reduction Burn (as needed)		Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec
2	Photodocument Prescribed Burn		Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec
2	Prescribed Burn (as needed)		Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec
2	Hydrologic Improvments				Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec
2	Exotic Species Identification and Location (as needed)		Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec
2	Exotic Control and Removal (as needed)		Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec
2	Establish Quantitative Vegetative Monitoring Transects	Sept-Dec							
2	Bi-Monthly Permit Compliance Inspections		Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec
2	Annual Monitoring	Sept-Dec	Sept-Dec	Sept-Dec	Sept-Dec	Sept-Dec	Sept-Dec	Sept-Dec	Sept-Dec
2	Biannual Progress Report		Jan, July	Jan, July	Jan, July	Jan, July	Jan, July	Jan, July	Jan, July
2	Annual Report		Jan	Jan	Jan	Jan	Jan	Jan	Jan
2	Hydrologic Monitoring		Baseline Jan-Dec	Baseline Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	
3	Financial Assurance & Conservation Easement				x				

3	Selective Logging\ Vegetation Removal (as needed)					Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec
3	Hazard Reduction Burn (as needed)					Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec
3	Photodocument Prescribed Burn					Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec
3	Prescribed Burn (as needed)					Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec
3	Hydrologic Improvments					Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec
3	Exotic Species Identification and Location (as needed)					Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec
3	Exotic Control and Removal (as needed)					Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec
3	Establish Quantitative Vegetative Monitoring Transects	**Sept-Dec**							
3	Bi-Monthly Permit Compliance Inspections					Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec
3	Annual Monitoring	**Sept-Dec**				Sept-Dec	Sept-Dec	Sept-Dec	
3	Biannual Progress Report					Jan, July	Jan, July	Jan, July	Jan, July
3	Annual Report					Jan	Jan	Jan	Jan
3	Hydrologic Monitoring			**Baseline Jan-Dec**		Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec
4	Financial Assurance & Conservation Easement				**x**				
4	Selective Logging\ Vegetation Removal (as needed)					Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec
4	Hazard Reduction Burn (as needed)					Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec
4	Photodocument Prescribed Burn					Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec
4	Prescribed Burn (as needed)					Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec
4	Hydrologic Improvments					Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec
4	Exotic Species Identification and Location (as needed)					Sept-Dec	Sept-Dec	Sept-Dec	Sept-Dec
4	Exotic Control and Removal (as needed)					Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec
4	Establish Quantitative Vegetative Monitoring Transects	**Sept-Dec**							
4	Bi-Monthly Permit Compliance Inspections					Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec
4	Annual Monitoring	**Sept-Dec**				Sept-Dec	Sept-Dec	Sept-Dec	
4	Biannual Progress Report					Jan, July	Jan, July	Jan, July	Jan, July
4	Annual Report					Jan	Jan	Jan	Jan
4	Hydrologic Monitoring			**Baseline Jan-Dec**		Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec

II. REQUIREMENTS / RESULTS

Performance standards as per the MBI (see Breakfast Point Mitigation Bank MBI, MBI Permit, p. 8) are summarized below and detailed in two tables (see Tables 3A and 3B). Within the tables, the results for each annual monitoring event (by Phase) to date are reported next to the appropriate performance standard, and an evaluation of the status and/or current trend of the plant community with respect to each performance standard is reported. Status and trends are further evaluated by Phase below. A proposed credit release schedule based on the completed tasks is also shown below (Table 2).

Table 2. BPMB Proposed Credit Release Schedule

Release Activity	Permit Section	%Credits Released	Credits Phase 1	Credits Phase 2	Credits Phase 3	Credits Phase 4
Record Conservation Easement, Financial Assurances	III-D, III-E	10%	16.63	59.66	17.09	6.41
Logging, Selective Clearing, Brush Reduction, Exotic Control	III-F	20%	33.32	119.32	34.18	12.84
Prescribed Burn	III-G	15%	24.91	89.49	25.64	9.64
Hydrologic Improvements	III-H	5%	8.32	29.84	8.56	3.23
Performance Standards, Year 1 attained	IV-E(3)	10%	16.63	59.66	17.09	6.41
Performance Standards, Year 2 attained	IV-E(3)	10%	16.63	59.66	17.09	6.41
Performance Standards, Year 3 attained	IV-E(3)	10%	16.63	59.66	17.09	6.41
Performance Standards, Year 4 attained	IV-E(3)	10%	16.63	59.66	17.09	6.41
Performance Standards, Final attained	IV-E(2)	10%	21.96	59.66	17.09	6.41
Total (998.03 credits)		100%	166.33	596.61	170.92	64.17

Previously released

Potential credit release for tasks completed in 2006*

* A request for credit release has not been submitted. It is anticipated that a request for credit release, as per IV. Operation of the Bank, Section F.1. Credit Release Schedule, will be submitted some time in 2007.

Community Requirements / Performance Standards

- ***Phase 1 (see also Table 3A)***

Quantitative Results

In Phase 1, all performance standards are trending toward success, and all final and/or interim performance standards have been met except two. In the Mixed Forested Wetland, there is 50% coverage of non-nuisance native ground and shrub species – final performance standard is 75% coverage. In Mesic Pine Flatwoods, there is 5.4% relative coverage of graminoids within the non-nuisance vegetation, and the trend is increasing. The interim performance standard is 20% relative coverage of graminoids. All other interim (and in most cases the final) performance standards have been met. Hydric Pine Flatwoods and Cypress Flat communities have met at least interim standards in all categories.

Qualitative Results

In phase 1, qualitative transects 4 and 10 bisect a large portion of the treated and managed landscape. Transect 4 includes Cypress Flat, Mixed Forested Wetland and Hydric Pine Flatwoods. This landscape has received prescribed burns, mechanical thinning and in some places roller chopping. Woody shrubs have been reduced to coppice and appropriate native groundcover species are responding appropriately to mechanical treatments and prescribed burns. The graminoids such as wiregrass and sedges are reproducing normally. Although there are logs on the ground in some of the knockdown areas, these are expected to quickly rot as many were partially burned during the prescribed fire. The canopy has been thinned and is trending toward appropriate density. Notable wildlife in phase 1 includes an active Bald Eagle nest than can be seen along transect 4. In addition, an Audubon spring migration bird survey was conducted at BPMB in May 2006 and this resulted in 38 bird species being recorded on this site. Bird diversity is often considered an important measure of ecosystem health and the diversity of bird species observed has increased especially in areas that have undergone restoration treatments. Transect 10 included Hydric Pine Flatwoods and Mesic Pine Flatwoods. The qualitative results support the quantitative findings as summarized in Table IIA. The resulting landscapes are more open and the groundcover has responded favorably to the increase in light, air movement, and a general decrease in competition from fire suppressed woody species.

COLOR KEY
Final standard complete
Interim standard complete
Standard not complete

TABLE 3A. PHASE 1. Final and Interim Performance Standards are summarized and results are given. Status and Trend with respect to each performance standard are evaluated in the far right column.

HYDRIC PINE FLATWOODS				
Final Performance Standard	**Interim Performance Standard Year 1**	**Results - Year 1 (Baseline)**	**Results - Year 2**	**Status / Trend**
75 desirable (native) species per transect	25 desirable species / 40% cover non-nuisance vegetation	Average species/transect = 46 35% cover non-nuisance vegetation	Average species/transect = 25 28% cover non-nuisance vegetation	**Interim standard complete** / relative coverage increasing
Woody shrubs shall be no taller than coppice sprouts.	NONE	Average height of shrubs = 1.43m	Average height of shrubs = 0.25m	**Final standard complete**
Average cover of graminoids shall be 75% or greater with no one quadrat having less than 50% cover; each quadrat will have at least 85% coverage with graminoid species (or clear trend of increasing graminoid coverage).	20% of non-nuisance vegetation is graminoid	Relative coverage of graminoids = 30%	Relative coverage of graminoids= 68%	**Interim standard complete** / relative coverage increasing
Plants reproducing naturally by normal vegetative spread or seedling establishment.	NONE	Groundcover suppression observed	Normal reproduction observed	**Final standard complete**
Nuisance and exotic species limited to 5% or less coverage/ac; exotic spp. limited to 1% or less coverage/ac	NONE	No nuisance species recorded, less than 1% exotic species recorded	No nuisance species recorded, less than 1% exotic species recorded	**Final standard complete**
Desirable canopy trees trending toward a basal area of 40-70 sq.ft./ac and 60-112 trees/ac	NONE	Over 200 trees\acre on average	Canopy = 60 trees/ac	**Final standard complete**
CYPRESS FLAT				
Final Performance Standard	**Interim Performance Standard Year 1**	**Results - Year 1 (Baseline)**	**Results - Year 2**	**Status / Trend**
75 desirable (native) species per transect	25 desirable species / 40% cover non-nuisance vegetation	Average species/transect = 29 59% cover non-nuisance vegetation	Average species/transect = 28 42% cover non-nuisance vegetation	**Interim standard complete** / relative coverage increasing
Woody shrubs shall be no taller than coppice sprouts.	NONE	Average height of shrubs = 1.43m	Average height of shrubs = 0.25m	**Final standard complete**
Average cover of graminoids shall be 75% or greater with no one quadrat having less than 50% cover; each quadrat will have at least 85% coverage with graminoid species (or clear trend of increasing graminoid coverage).	20% of non-nuisance vegetation is graminoid	Relative coverage of graminoids= 52%	Relative coverage of graminoids= 70%	**Interim standard complete** / relative coverage increasing
Plants reproducing naturally by normal vegetative spread or seedling establishment.	NONE	Groundcover suppression observed	Normal reproduction observed	**Final standard complete**
Nuisance and exotic species limited to 5% or less coverage/ac; exotic spp. limited to 1% or less coverage/ac	NONE	No nuisance species recorded, less than 1% exotic species recorded	No nuisance species recorded, less than 1% exotic species recorded	**Final standard complete**
Canopy trees gaining basal area annually and trending toward 5-20 trees/stand (average)	NONE	73.5 trees/acre	5-20 trees/acre	**Final standard complete**
MIXED FORESTED WETLAND				
Final Performance Standard	**Interim Performance Standard Year 1**	**Results - Year 1 (Baseline)**	**Results - Year 2**	**Status / Trend**
75% or greater cover of non-nuisance native ground and shrub species (when canopy is less than 30% immature trees).	NONE	Coverage = 50%	Coverage = 50%	**Standard not complete**
Desirable canopy tree cover increasing. At least 30% canopy cover.	NONE	Desirable canopy tree coverage 60%	Desirable canopy tree coverage 60%	**Final standard complete**
Plants reproducing naturally by normal vegetative spread or seedling establishment.	NONE	Normal reproduction observed	Normal reproduction observed	**Final standard complete**
Nuisance and exotic species limited to 5% or less coverage/ac; exotic spp. limited to 1% or less coverage/ac	NONE	No nuisance species recorded, less than 1% exotic species recorded	No nuisance species recorded, less than 1% exotic species recorded	**Final standard complete**
MESIC PINE FLATWOODS				
Final Performance Standard	**Year 1**	**Results - Year 1 (Baseline)**	**Results - Year 2**	**Status / Trend**
25 desirable species per quadrat	10 desirable species / 30% cover non-nuisance vegetation	Average species/transect = 26	Average species/transect = 26	**Interim standard complete**
Average cover of graminoids at least 30% with no one quadrat having less than 20% cover; each quadrat will attain at least 50% coverage with graminoid species (or a clear trend of increasing graminoid coverage).	20% of non-nuisance vegetation is graminoid	Relative coverage = 1.71%	Relative coverage = 5.4%	**Standard not complete** / relative coverage increasing
Plants reproducing naturally by normal vegetative spread or seedling establishment.	NONE	Groundcover suppression observed	Normal reproduction observed	**Final standard complete**
Nuisance and exotic species are limited to 5% or less coverage/acre	NONE	No nuisance species recorded, less than 1% exotic species recorded	No nuisance species recorded, less than 1% exotic species recorded	**Final standard complete**
Desirable canopy trees trending toward 40-70 sq.ft./ac and 60-112 trees/acre (average).	NONE	600 trees/acre	Canopy trees = 70 trees/acre	**Final standard complete**

• ***Phase 2 (see also Table 3B)***

Quantitative Results

In Phase 2, all performance standards are also trending toward success. In Hydric Pine Flatwoods, 46 desirable species per transect and 28% coverage of non-nuisance vegetation were observed. These were both increases over baseline data, indicating a successful trend. The interim standard is 25 desirable species and 40% coverage; therefore, this standard was met in part. In Palustrine Marsh, there is 54% coverage of herbaceous species, also an increasing trend over baseline data. The final performance standard requires 75% or greater herbaceous cover. In Cypress Flat and Mesic Flatwoods communities, either interim or final performance standards have been met in every case.

Qualitative Results

Phase 2 is the largest phase in area at BPMB. It includes 11 transects (whole or in part). These are transects 1, 3, 4, 5, 6, 7, 8, 9, 10, 11 and 12. Plant communities traversed by these transects include Hydric Pine Flatwoods, Mesic Pine Flatwoods, Wet Prairie (Treeless Hydric Savanna), Cypress Flat, Mixed Forested Wetland, Palustrine Marsh. Although much of Phase 2 has yet to be mechanically treated, significant portions have been burned. Most notable are the areas in Transect 6 where the relatively mature canopy has been reduced and the landscape opened (see photographs of transect BP2T6_MPF). Burning and mechanical reduction can also be seen throughout much of the northeastern portion of Phase 2 and are planned for the remainder of Phase 2 in 2007 (see Table 1, Schedule of Tasks).

COLOR KEY
Final standard complete
Interim standard complete
Standard not complete

TABLE 3B. PHASE 2. Final and Interim Performance Standards are summarized and results are given. Success and/or Trend with respect to each performance standard is evaluated.

PALUSTRINE MARSH				
Final Performance Standard	**Interim Performance Standard Year 1**	**Results - Year 1 (Baseline)**	**Results - Year 2**	**Status / Trend**
75% or greater herbaceous cover.	NONE	Coverage = 40%	Coverage = 54%	**Standard not complete**
No greater than 10% cover of woody shrubs.	NONE	1% coverage by woody species	0.1% coverage by woody species	**Final standard complete**
Plants reproducing naturally by normal vegetative spread or seedling establishment.	NONE	Normal reproduction observed	Normal reproduction observed	**Final standard complete**
Nuisance and exotic species limited to 5% or less coverage/ac; exotic spp. limited to 1% or less coverage/ac	NONE	No nuisance species recorded; no exotic species recorded	No nuisance species recorded; no exotic species recorded	**Final standard complete**
HYDRIC PINE FLATWOODS				
Final Performance Standard	**Interim Performance Standard Year 1**	**Results - Year 1 (Baseline)**	**Results - Year 2**	**Status / Trend**
75 desirable (native) species per transect	25 desirable species / 40% cover non-nuisance vegetation	Average species/transect = 42 21.5% cover non-nuisance vegetation	Average species/transect = 46 28% cover non-nuisance vegetation	**Interim standard complete** ***(in part)*** **/** average number of species increasing and total coverage by non-nuisance vegetation increasing
Woody shrubs shall be no taller than coppice sprouts.	NONE	Average height of shrubs = 2 m	Average height of shrubs = 0.25m	**Final standard complete**
Average cover of graminoids shall be 75% or greater with no one quadrat having less than 50% cover; each quadrat will have at least 85% coverage with graminoid species (or clear trend of increasing graminoid coverage).	20% of non-nuisance vegetation is graminoid	Relative coverage of graminoids = 11%	Relative coverage of graminoids = 21%	**Interim standard complete** / relative coverage increasing
Plants reproducing naturally by normal vegetative spread or seedling establishment.	NONE	Groundcover suppression observed	Normal reproduction observed	**Final standard complete**
Nuisance and exotic species limited to 5% or less coverage/ac; exotic spp. limited to 1% or less coverage/ac	NONE	No nuisance species recorded, 0% exotic species recorded	No nuisance species recorded, 0% exotic species recorded	**Final standard complete**
Desirable canopy trees trending toward a basal area of 40-70 sq.ft./ac and 60-112 trees/ac		Over 400 trees\acre on average	Canopy = 60 trees/acre	**Standard not complete**
CYPRESS FLAT				
Final Performance Standard	**Interim Performance Standard Year 1**	**Results - Year 1 (Baseline)**	**Results - Year 2**	**Status / Trend**
75 desirable (native) species per transect	25 desirable species / 40% cover non-nuisance vegetation	Average species/transect = 32 34.5% cover non-nuisance vegetation	Average species/transect = 32 48% cover non-nuisance vegetation	**Interim standard complete** / relative coverage increasing
Woody shrubs shall be no taller than coppice sprouts.	NONE	Average height of shrubs = 1.22m	Average height of shrubs = 0.25m	**Final standard complete**
Average cover of graminoids shall be 75% or greater with no one quadrat having less than 50% cover; each quadrat will have at least 85% coverage with graminoid species (or clear trend of increasing graminoid coverage).	20% of non-nuisance vegetation is graminoid	Relative coverage of graminoids = 24%	Relative coverage of graminoids = 37%	**Interim standard complete** / relative coverage increasing
Plants reproducing naturally by normal vegetative spread or seedling establishment.	NONE	Groundcover suppression observed	Normal reproduction observed	**Final standard complete**
Nuisance and exotic species limited to 5% or less coverage/ac; exotic spp. limited to 1% or less coverage/ac	NONE	No nuisance species recorded, less than 1% exotic species recorded	No nuisance species recorded, less than 1% exotic species recorded	**Final standard complete**
Canopy trees gaining basal area annually and trending toward 5-20 trees/stand (average)	NONE	77 trees/acre	Canopy = 5-20 trees/acre	**Standard not complete**
MESIC PINE FLATWOODS				
Final Performance Standard	**Interim Performance Standard Year 1**	**Results - Year 1 (Baseline)**	**Results - Year 2**	**Status / Trend**
25 desirable species per quadrat	10 desirable species / 30% cover non-nuisance vegetation	Average species/transect = 20 34% cover non-nuisance vegetation	Average species/transect = 22.6 47.3% cover non-nuisance vegetation	**Interim standard complete** / average number of species increasing, coverage increasing
Average cover of graminoids at least 30% with no one quadrat having less than 20% cover; each quadrat will attain at least 50% coverage with graminoid species (or a clear trend of increasing graminoid coverage).	20% of non-nuisance vegetation is graminoid	Relative coverage of graminoids = 11.3%	Relative coverage of graminoids= 21.6%	**Interim standard complete** / relative coverage increasing
Plants reproducing naturally by normal vegetative spread or seedling establishment.	NONE	Groundcover suppression observed	Normal reproduction observed	**Final standard complete**
Nuisance and exotic species are limited to 5% or less coverage/acre	NONE	No nuisance species recorded, less than 1% exotic species recorded	No nuisance species recorded, less than 1% exotic species recorded	**Final standard complete**
Desirable canopy trees trending toward 40-70 sq.ft./ac and 60-112 trees/acre (average).	NONE	600-700 trees/acre	Canopy = approximately 70 trees/acre	**Standard not complete**

Compliance (Hydrological Improvements)

All hydrologic observation points (monitoring wells and instruments) continue to be monitored throughout BPMB. This activity is as per the BPMB compensatory mitigation plan (Attachment A-9 – Hydrologic Restoration Plan). The BPMB hydrologic monitoring network includes nine (9) permanent groundwater monitoring wells, four (4) surface water wells, and one (1) precipitation gauge. All monitoring locations are configured for near-continuous hydrologic data acquisition. Data collected from the hydrologic monitoring network at the BPMB to date suggest groundwater across the site is extremely sensitive to precipitation events (rapid water table mounding and rapid recovery to baseline conditions). Additionally, data collected from some of the surface water and groundwater locations in the northern portion of the BPMB are sensitive to tidal motion as shown in Exhibit 1. An example of groundwater data is shown in Exhibit 2, and Exhibit 3 illustrates the predicted pre and post culvert surface water flow. Well locations relating to the exhibits are shown on Figure 2.

Hydrologic monitoring at BPMB will continue through January 2008. Data collected during the 2006 reporting period includes on-site precipitation, temporal change in surface water elevation at four (4) surface water monitoring locations, and temporal change in groundwater elevation at nine (9) groundwater monitoring locations. Examples of hydrologic data are shown in exhibits 1-3. Continued measurement of these parameters will occur during 2007 monitoring period.

A primary goal of the BPMB hydrologic monitoring effort is to collect a dataset sufficient to allow recommendations regarding the need for hydrologic improvements/modifications at the bank. During the 2007 monitoring period, hydrologic modeling of surface water flow with and without proposed hydrologic improvements (culverts, low-water crossings, ditch blocks) will be performed, using the BPMB hydrologic dataset to calibrate model input. Preliminary modeling using the Army Corps of Engineers (ACOE) HEC-1 model to assess affect of a proposed culvert at the BPMB (under 25 year design storm conditions) indicate that surface water will be diverted from discharge locations on the northern boundary of the site towards the eastern boundary of the site (Figure 2).

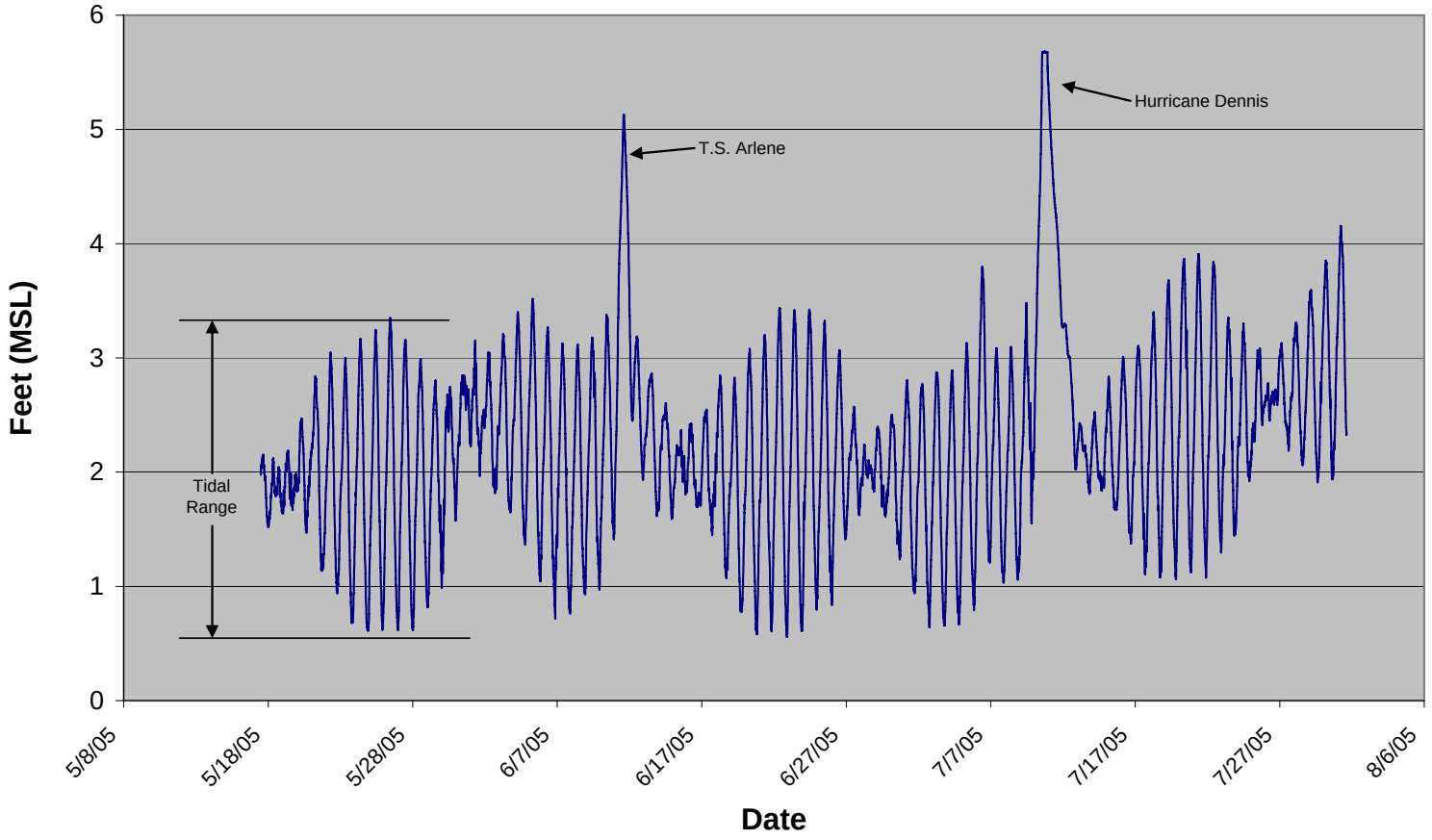


Exhibit 1. Example data from BPMB surface water monitoring location SW-04.

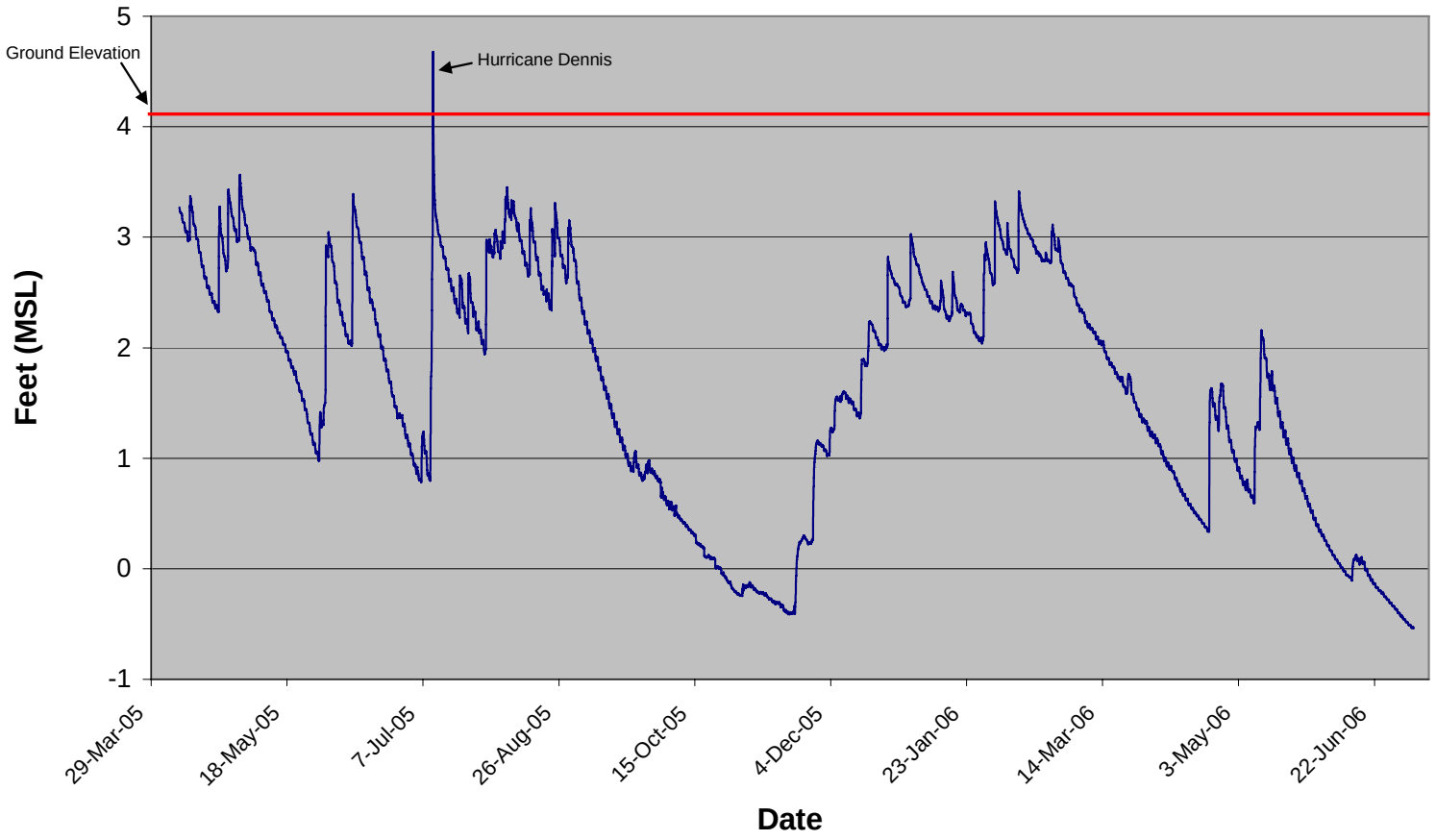


Exhibit 2. Example data from BPMB groundwater monitoring location MW-02.

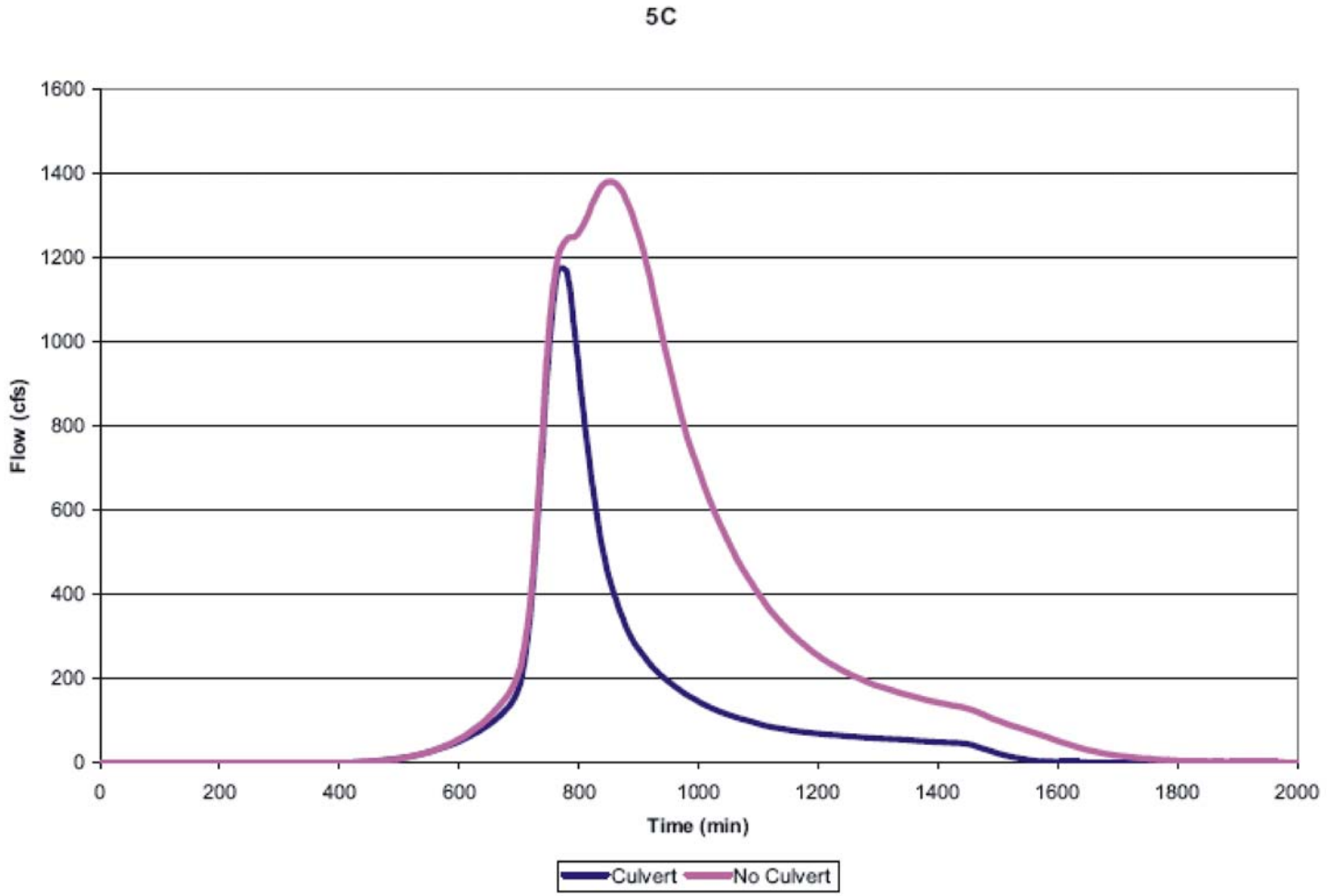


Exhibit 3. HEC-1 predicted pre- and post-culvert surface water discharge at BPMB.

III. SUMMARY DATA

1. Summary quantitative and qualitative data collected from the field in 2006 are included in Appendices A and B.

2. Photographs of quantitative and qualitative transects are included in Appendices C and D.

3. Semiannual reports are included in Appendix E.

IV. CONCLUSIONS

Two years of active management have produced a dramatically changed landscape in Phases 1 and 2. High density pine plantations with little groundcover and unnaturally dense vegetation resulting from fire suppression have been restored to an open landscape. Groundcover species are reproducing normally, shrubs have been reduced to coppice sprouts, graminoids and forbs are increasing in coverage, and the remaining canopy species are increasing in basal area. Quantitative data calculations illustrate these trends – importance values are *increasing* for appropriate native groundcover species and for relative coverage of herbaceous groundcover species, and importance values are *decreasing* for relative coverage of shrubs. There is also evidence of normal flowering, fruiting, and reproduction of the groundcover species. Whenever relative coverage for herbaceous species was measured as decreasing in 2006, this was due to the time lag involved with regrowth since the last prescribed burn and the timing of the quantitative monitoring. Prescribed burning earlier in the summer results in larger plants and increased coverage, burning later in the year tends to produce more bare ground.

Additional timber harvesting and prescribed burning are scheduled for Phase 2. The uncertainty of weather patterns combined with regulatory restrictions on the timing of burns caused some restoration treatment delays. A regional drought in 2006 combined with County imposed burn bans caused some restoration treatment delays. Adaptive management will continue to be employed to move toward meeting final performance standards.

Monitoring of system hydrology at BPMB is progressing positively. A significant dataset of temporal behavior of surface water, groundwater, and precipitation has been and is continuing to be collected. Preliminary modeling of proposed hydrologic improvements has begun using this dataset to calibrate and test the hydrologic models. In summary, quantitative and qualitative results indicate that current management activities (prescribed fire, canopy reduction/timber activities, exotic species control, and mechanical reduction) have produced a landscape trending toward appropriate native plant community structure. Shrubs have been reduced to

coppice sprouts, canopy has been thinned to appropriate density, sunlight and air circulation have increased, and groundcover grasses and forbs are reproducing normally and increasing in coverage. Continued efforts to reduce shrubs in the groundcover (through mechanical means and prescribed burning) will be the key to continued successful regeneration of appropriate species. Overall, the landscape is trending toward the final performance standards.

Appendix A: Summary of 2006 Quantitative Transect Monitoring

Breakfast Point transect number BP1T1_MFW - Mixed Forested Wetland

Relative Percent Cover by vegetative classification:

Forbs	11.95%
Graminoids	10.34%
Vines	7.81%
Woody Plants	69.9%

Average Percent Cover of Bare Ground and Standing Water:

Bare ground	49.55%
Open/standing water	26.2%

Species Richness:	28 species
Average height of Shrubs:	1.44 meters
Trees per acres:	140

Breakfast Point transect number BP1T2_CF - Cypress Flat

Relative Percent Cover by vegetative classification:

Forbs	25.17%
Graminoids	65.09%
Woody Plants	9.75%

Average Percent Cover of Bare Ground and Standing Water:

Bare ground	43.97%
Open/standing water	10.4%

Species Richness:	29 species
Average height of Shrubs:	0.625 meters
Trees per acres:	5

Breakfast Point transect number BP1T3_MPF - Mesic Pine Flatwoods

Relative Percent Cover by vegetative classification:

Forbs	69.64%
Graminoids	10.77%
Vines	0.3%
Woody Plants	19.27%

Average Percent Cover of Bare Ground and Standing Water:

Bare ground	79.67%

Species Richness:	26 species
Average height of Shrubs:	0.625 meters
Trees per acres:	80

Breakfast Point transect number BP1T4_HPF - Hydric Pine Flatwoods

Relative Percent Cover by vegetative classification:

Forbs	37.45%
Graminoids	43.22%
Vines	0.76%
Woody Plants	18.58%

Average Percent Cover of Bare Ground and Standing Water:

Bare ground	65.07%

Species Richness:	38 species
Average height of Shrubs:	0.625 meters
Trees per acres:	40

Breakfast Point transect number BP1T5_MPF - Mesic Pine Flatwoods

Relative Percent Cover by vegetative classification:

Forbs	10.54%
Graminoids	0.79%
Vines	0.07%
Woody Plants	88.62%

Average Percent Cover of Bare Ground and Standing Water:

Bare ground	44%

Species Richness:	19 species
Average height of Shrubs:	0.625 meters
Trees per acres:	90

Breakfast Point transect number BP1T6_CF - Cypress Flat

Relative Percent Cover by vegetative classification:

Forbs	12.42%
Graminoids	76.99%
Vines	1.05%
Woody Plants	9.54%

Average Percent Cover of Bare Ground and Standing Water:

Bare ground	63.23%

Species Richness:	27 species
Average height of Shrubs:	0.625 meters
Trees per acres:	5

Breakfast Point transect number BP1T7_ - Hydric Pine Flatwoods

Relative Percent Cover by vegetative classification:

Forbs	0.25%
Graminoids	82.93%
Vines	0.99%
Woody Plants	15.84%

Average Percent Cover of Bare Ground and Standing Water:

Bare ground	81.33%

Species Richness:	12 species
Average height of Shrubs:	0.625 meters
Trees per acres:	40

Breakfast Point transect number BP1T8_HPF - Hydric Pine Flatwoods

Relative Percent Cover by vegetative classification:

Forbs 12.35%	
Graminoids	80.36%
Vines	0.22%
Woody Plants	7.06%

Average Percent Cover of Bare Ground and Standing Water:

Bare ground	82.9%

Species Richness:	17 species
Average height of Shrubs:	0.625 meters
Trees per acres:	20

Breakfast Point transect number BP2T1_PM - Palustrine Marsh

Relative Percent Cover by vegetative classification:

Forbs	16.32%
Graminoids	83.5%
Woody Plants	0.18%

Average Percent Cover of Bare Ground and Standing Water:

Open/standing water	45.87%

Species Richness:	8 species
Average height of Shrubs:	0.625 meters
Trees per acres:	0

Breakfast Point transect number BP2T2_HPF - Hydric Pine Flatwoods

Relative Percent Cover by vegetative classification:

Forbs	12.89%
Graminoids	59.13%
Vines	2.19%
Woody Plants	25.79%

Average Percent Cover of Bare Ground and Standing Water:

Bare ground	83.6%
Open/standing water	5.27%

Species Richness:	50 species
Average height of Shrubs:	0.625 meters
Trees per acres:	110

Breakfast Point transect number BP2T3_MPF - Mesic Pine Flatwoods

Relative Percent Cover by vegetative classification:

Forbs	1.22%
Graminoids	76.46%
Vines	1.22%
Woody Plants	21.1%

Average Percent Cover of Bare Ground and Standing Water:

Bare ground	82.53%

Species Richness:	18 species
Average height of Shrubs:	1.52 meters
Trees per acres:	800

Breakfast Point transect number BP2T4_CF - Cypress Flat

Relative Percent Cover by vegetative classification:

Forbs	10.08%
Graminoids	84.12%
Woody Plants	5.79%

Average Percent Cover of Bare Ground and Standing Water:

Open/standing water	57.97%

Species Richness:	21 species
Average height of Shrubs:	1.05 meters
Trees per acres:	80

Breakfast Point transect number BP2T5_HPF - Hydric Pine Flatwoods

Relative Percent Cover by vegetative classification:

Forbs	7.26%
Graminoids	84.65%
Vines	2.86%
Woody Plants	5.2%

Average Percent Cover of Bare Ground and Standing Water:

Bare ground	14.57%
Open/standing water	43.57%

Species Richness:	42 species
Average height of Shrubs:	2.09 meters
Trees per acres:	120

Breakfast Point transect number BP2T6_MPF - Mesic Pine Flatwoods

Relative Percent Cover by vegetative classification:

Forbs	4.52%
Graminoids	25.14%
Vines	1.69%
Woody Plants	68.65%

Average Percent Cover of Bare Ground and Standing Water:

Bare ground 27.6%

Species Richness:	19 species
Average height of Shrubs:	0.625 meters
Trees per acres:	80

Breakfast Point transect number BP2T7_CF - Cypress Flat

Relative Percent Cover by vegetative classification:

Forbs	11.55%
Graminoids	71.53%
Vines	1.51%
Woody Plants	15.38%

Average Percent Cover of Bare Ground and Standing Water:

Bare ground	33.1%
Open/standing water	12.7%

Species Richness:	43 species
Average height of Shrubs:	1.42 meters
Trees per acres:	20

Breakfast Point transect number BP2T8_TF - Hydric Pine Flatwoods

Relative Percent Cover by vegetative classification:

Forbs	17.99%
Graminoids	66.95%
Vines	0.3%
Woody Plants	14.79%

Average Percent Cover of Bare Ground and Standing Water:

Bare ground	78.6%

Species Richness:	20 species
Average height of Shrubs:	1.68 meters
Trees per acres:	280

Breakfast Point transect number BP2T9_MPF - Mesic Pine Flatwoods

Relative Percent Cover by vegetative classification:

Forbs	19.32%
Graminoids	64.64%
Vines	1.98%
Woody Plants	14.09%

Average Percent Cover of Bare Ground and Standing Water:

Bare ground	46.63%

Species Richness:	31 species
Average height of Shrubs:	0.625 meters
Trees per acres:	60

Site Name: Breakfast Point **Plant community type:** Hydric Pine Flatwoods

Transect ID: BPQT1_P1 **Date and time (am/pm):** 11/8/2006 ☑ AM ☐ PM

1. Weather: ☑ Full Sun ☐ Part Sun ☐ Cloudy ☐ Cloudy and Rain/Fog

2. Temperature: ☐ 20-50 F ☐ 51-70 F ☑ 71-90 F ☐ 91-110 F

3. CANOPY % cover: ☑ Pine Plantation (Rows) ☐ Managed for Pine ☐ Natural Forest

☐ Absent ☐ 0-1% ☑ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

4. Estimated height class of the majority of **TREES** using the following scale: ☐ absent ☐ 3-5m ☑ 6-10m ☐ >10m

List 3 dominant **TREE** species observed in canopy:

1. Pinus elliottii **2.** **3.**

5. Estimated height class of the majority of **SUBCANOPY** using the following scale: ☐ absent ☑ 3-5m ☐ 6-10m ☐ >10m

List 3 dominant **SUBCANOPY** species observed:

1. Pinus elliottii **2.** **3.**

6. SHRUBS % cover: ☐ Absent ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☑ 51-75% ☐ 76-100%

List 3 dominant **SHRUB** species observed:

1. Illex vomitoria **2.** Myrica cerifera **3.** Ilex glabra

7. Estimated height class of the majority of **SHRUBS** using the following scale: ☐ absent ☐ 0-.5m ☐ .6-1.5m ☐ 1.6-3m

List 3 of the most common **SHRUB** and/or **TREE** seedlings observed:

1. **2.** **3.**

8. GROUNDCOVER % cover of graminoids (grasses, sedges and rushes):

☐ Absent ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☑ 76-100%

9. TOTAL GROUNDCOVER % cover (including graminiods and forbes):

☐ Absent ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

List 4 dominant **GROUNDCOVER** species observed:

1. Anthaenantia rufa **2.** Ilex vomitoria

3. Cladium spp **4.** Panicum verrucosum

List 3 of the most common **GROUNDCOVER** seedlings observed:

1. **2.** **3.**

List the **WEEDY** or **RUDERAL** species observed:

1. **2.** **3.**

10. Tree density: ☐ appropriate ☑ inappropriate **Why?:** ☑ too dense ☐ too sparse
11. Tree health: ☐ trees healthy ☑ trees stressed **Why?:** ☐ too dense ☑ too wet

12. Hydrologic indicators: ☑ hydric soils ☐ sediment deposition ☐ algal mat/aufwuchs ☐ aquatic bryotphytes ☐ aquatic plants ☐ rafted debris ☐ elevated lichen lines ☐ aquatic fauna ☑ tussocks/hummocks ☐ secondary flow channels ☑ water stained vegetation/ stain lines ☑ morphological plant adaptations/adventitious roots/buttressed trunks/hypertrophied lenticles

13. Water table: ☑ at the surface ☐ below surface **Standing water:** ☑ present ☐ absent
14. Water color: ☑ tannic ☐ non-tannic/clear ☐ cloudy **If cloudy, why?** ☐ suspended sediments ☐ other:
15. Water column: ☐ sphagnum present ☐ utricularia present
16. Altered hydrology: ☐ soil subsidence / oxidation of muck ☐ exposed roots ☐ abnormal tree fall due to soil subsidence ☐ inappropriate vegetation ☐ lichen lines: ☐ typical ☐ abnormal

List inappropriate vegetation:

1. **2.** **3.**

4. **5.** **6.**

17. Wildlife usage and natural history observations: ☐ footprints ☐ scat ☐ herbivory observed ☐ bird nests/calls ☐ fish observed ☐ animal remains ☐ scratch marks ☐ frog calls ☐ arthropods observed ☐ reptiles observed ☐ mammals observed

Notes on wildlife useage observed:

Hawk, bumble bee, Monarch butterfly

18. Exotic species: ☐ present ☑ absent

If present **must be georeferenced** and include the following information:

Species: **Location:** **latitude** **longitude**
% cover: ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%
Species: **Location:** **latitude** **longitude**
% cover: ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

19. Notes on the general aspect of the site/techniques to meet restoration goals:

Is natural regeneration occuring? ☐ yes ☐ no **and:** ☑ species appropriate ☐ supplemental planting/seeding needed
Site is/has: ☑ fire suppressed ☐ appropriately managed ☐ secondary growth ☐ planted ☐ clear-cut
If planted: ☐ bedded and planted ☐ not bedded but managed for pine **~Tree age:** ☐ 0-5 yrs ☐ 6-10 yrs ☐ 11-20 yrs ☐ 20+ yrs
Recommendations for restoration: ☐ prescribed burn ☐ mechanical treatment **other:**

Specific notes on restoration, observations, or adaptive management techniques:

Continue prescribed burning as per mitigation plan

Site Name: Breakfast Point **Plant community type:** Mesic Pine Flatwoods

Transect ID: BPQT1_P2 **Date and time (am/pm):** 11/8/2006 ☑ AM ☐ PM

1. Weather: ☐ Full Sun ☐ Part Sun ☐ Cloudy ☑ Cloudy and Rain/Fog

2. Temperature: ☐ 20-50 F ☐ 51-70 F ☑ 71-90 F ☐ 91-110 F

3. CANOPY % cover: ☐ Pine Plantation (Rows) ☐ Managed for Pine ☑ Natural Forest

☐ Absent ☐ 0-1% ☐ 1-5% ☐ 6-25% ☑ 26-50% ☐ 51-75% ☐ 76-100%

4. Estimated height class of the majority of **TREES** using the following scale: ☐ absent ☐ 3-5m ☑ 6-10m ☐ >10m

List 3 dominant **TREE** species observed in canopy:

1. Pinus elliottii **2.** **3.**

5. Estimated height class of the majority of **SUBCANOPY** using the following scale: ☑ absent ☐ 3-5m ☐ 6-10m ☐ >10m

List 3 dominant **SUBCANOPY** species observed:

1. **2.** **3.**

6. SHRUBS % cover: ☐ Absent ☐ 0-1% ☐ 1-5% ☑ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

List 3 dominant **SHRUB** species observed:

1. Myrica cerifera **2.** Ilex vomitoria **3.** Ilex glabra

7. Estimated height class of the majority of **SHRUBS** using the following scale: ☐ absent ☐ 0-.5m ☑ .6-1.5m ☐ 1.6-3m

List 3 of the most common **SHRUB** and/or **TREE** seedlings observed:

1. Myrica cerifera **2.** Pinus elliottii **3.**

8. GROUNDCOVER % cover of graminoids (grasses, sedges and rushes):

☑ Absent ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

9. TOTAL GROUNDCOVER % cover (including graminiods and forbes):

☐ Absent ☐ 0-1% ☐ 1-5% ☑ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

List 4 dominant **GROUNDCOVER** species observed:

1. Quercus minima **2.** Ilex glabra

3. Ilex vomitoria **4.** Serenoa repens

List 3 of the most common **GROUNDCOVER** seedlings observed:

1. **2.** **3.**

List the **WEEDY** or **RUDERAL** species observed:

1. **2.** **3.**

10. Tree density: ☐ appropriate ☑ inappropriate **Why?:** ☑ too dense ☐ too sparse
11. Tree health: ☐ trees healthy ☑ trees stressed **Why?:** ☑ too dense ☐ too wet

12. Hydrologic indicators: ☐ hydric soils ☐ sediment deposition ☐ algal mat/aufwuchs ☐ aquatic bryotphytes ☐ aquatic plants
☐ rafted debris ☐ elevated lichen lines ☐ aquatic fauna ☐ tussocks/hummocks ☐ secondary flow channels
☐ water stained vegetation/ stain lines ☐ morphological plant adaptations/adventitious roots/buttressed trunks/hypertrophied lenticles

13. Water table: ☐ at the surface ☐ below surface **Standing water:** ☐ present ☐ absent
14. Water color: ☐ tannic ☐ non-tannic/clear ☐ cloudy **If cloudy, why?** ☐ suspended sediments ☐ other:
15. Water column: ☐ sphagnum present ☐ utricularia present
16. Altered hydrology: ☐ soil subsidence / oxidation of muck ☐ exposed roots ☐ abnormal tree fall due to soil subsidence
☐ inappropriate vegetation ☐ lichen lines: ☐ typical ☐ abnormal

List inappropriate vegetation:

1. **2.** **3.**

4. **5.** **6.**

17. Wildlife usage and natural history observations: ☐ footprints ☐ scat ☐ herbivory observed ☐ bird nests/calls ☐ fish observed
☐ animal remains ☐ scratch marks ☐ frog calls ☐ arthropods observed ☐ reptiles observed ☐ mammals observed

Notes on wildlife useage observed:

Warbler

18. Exotic species: ☐ present ☑ absent

If present **must be georeferenced** and include the following information:

Species: **Location:** **latitude** **longitude**
% cover: ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%
Species: **Location:** **latitude** **longitude**
% cover: ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

19. Notes on the general aspect of the site/techniques to meet restoration goals:
Is natural regeneration occuring? ☐ yes ☐ no **and:** ☐ species appropriate ☑ supplemental planting/seeding needed
Site is/has: ☑ fire suppressed ☐ appropriately managed ☐ secondary growth ☐ planted ☐ clear-cut
If planted: ☑ bedded and planted ☐ not bedded but managed for pine **~Tree age:** ☐ 0-5 yrs ☐ 6-10 yrs ☑ 11-20 yrs ☐ 20+ yrs
Recommendations for restoration: ☐ prescribed burn ☑ mechanical treatment **other:**

Specific notes on restoration, observations, or adaptive management techniques:

Reduce canopy as per mitigation plan

Site Name: Breakfast Point **Plant community type:** Hydric Pine Flatwoods

Transect ID: BPQT2_P1 **Date and time (am/pm):** 11/8/2006 ☑ AM ☐ PM

1. Weather: ☑ Full Sun ☐ Part Sun ☐ Cloudy ☐ Cloudy and Rain/Fog

2. Temperature: ☐ 20-50 F ☐ 51-70 F ☑ 71-90 F ☐ 91-110 F

3. CANOPY % cover: ☑ Pine Plantation (Rows) ☐ Managed for Pine ☐ Natural Forest

☐ Absent ☐ 0-1% ☐ 1-5% ☑ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

4. Estimated height class of the majority of **TREES** using the following scale: ☐ absent ☐ 3-5m ☑ 6-10m ☐ >10m

List 3 dominant **TREE** species observed in canopy:

1. Pinus elliottii **2.** **3.**

5. Estimated height class of the majority of **SUBCANOPY** using the following scale: ☐ absent ☑ 3-5m ☐ 6-10m ☐ >10m

List 3 dominant **SUBCANOPY** species observed:

1. Myrica cerifera **2.** Pinus elliottii **3.**

6. SHRUBS % cover: ☐ Absent ☐ 0-1% ☐ 1-5% ☑ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

List 3 dominant **SHRUB** species observed:

1. Myrica cerifera **2.** Ilex vomitoria **3.**

7. Estimated height class of the majority of **SHRUBS** using the following scale: ☐ absent ☐ 0-.5m ☑ .6-1.5m ☐ 1.6-3m

List 3 of the most common **SHRUB** and/or **TREE** seedlings observed:

1. Myrica cerifera **2.** **3.**

8. GROUNDCOVER % cover of graminoids (grasses, sedges and rushes):

☐ Absent ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☑ 76-100%

9. TOTAL GROUNDCOVER % cover (including graminiods and forbes):

☐ Absent ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☑ 76-100%

List 4 dominant **GROUNDCOVER** species observed:

1. Spartina patens **2.** Anthaenanthia rufu

3. Juncus romarianus **4.**

List 3 of the most common **GROUNDCOVER** seedlings observed:

1. **2.** **3.**

List the **WEEDY** or **RUDERAL** species observed:

1. **2.** **3.**

10. Tree density: ☐ appropriate ☑ inappropriate **Why?:** ☑ too dense ☐ too sparse
11. Tree health: ☐ trees healthy ☑ trees stressed **Why?:** ☐ too dense ☑ too wet

12. Hydrologic indicators: ☑ hydric soils ☐ sediment deposition ☐ algal mat/aufwuchs ☐ aquatic bryotphytes ☐ aquatic plants
☐ rafted debris ☐ elevated lichen lines ☐ aquatic fauna ☑ tussocks/hummocks ☐ secondary flow channels
☑ water stained vegetation/ stain lines ☑ morphological plant adaptations/adventitious roots/buttressed trunks/hypertrophied lenticles

13. Water table: ☑ at the surface ☐ below surface **Standing water:** ☑ present ☐ absent
14. Water color: ☑ tannic ☐ non-tannic/clear ☐ cloudy **If cloudy, why?** ☐ suspended sediments ☐ other:
15. Water column: ☐ sphagnum present ☐ utricularia present
16. Altered hydrology: ☐ soil subsidence / oxidation of muck ☐ exposed roots ☐ abnormal tree fall due to soil subsidence
☐ inappropriate vegetation ☐ lichen lines: ☐ typical ☐ abnormal

List inappropriate vegetation:

1. **2.** **3.**

4. **5.** **6.**

17. Wildlife usage and natural history observations: ☐ footprints ☐ scat ☐ herbivory observed ☐ bird nests/calls ☐ fish observed
☐ animal remains ☐ scratch marks ☑ frog calls ☐ arthropods observed ☐ reptiles observed ☐ mammals observed

Notes on wildlife useage observed:

Bullfrog, locust, crickets, box turtle

18. Exotic species: ☐ present ☑ absent

If present **must be georeferenced** and include the following information:

Species: **Location:** **latitude** **longitude**
% cover: ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%
Species: **Location:** **latitude** **longitude**
% cover: ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

19. Notes on the general aspect of the site/techniques to meet restoration goals:

Is natural regeneration occuring? ☐ yes ☐ no **and:** ☑ species appropriate ☐ supplemental planting/seeding needed
Site is/has: ☑ fire suppressed ☐ appropriately managed ☐ secondary growth ☑ planted ☐ clear-cut
If planted: ☑ bedded and planted ☐ not bedded but managed for pine **~Tree age:** ☐ 0-5 yrs ☐ 6-10 yrs ☐ 11-20 yrs ☐ 20+ yrs
Recommendations for restoration: ☐ prescribed burn ☐ mechanical treatment **other:**

Specific notes on restoration, observations, or adaptive management techniques:

Continue prescribed burning and canopy reduction as per the mitigation plan

Site Name: Breakfast Point **Plant community type:** Mesic Pine Flatwoods

Transect ID: BPQT2_P2 **Date and time (am/pm):** 11/8/2006 ☑ AM ☐ PM

1. Weather: ☑ Full Sun ☐ Part Sun ☐ Cloudy ☐ Cloudy and Rain/Fog

2. Temperature: ☐ 20-50 F ☐ 51-70 F ☑ 71-90 F ☐ 91-110 F

3. CANOPY % cover: ☐ Pine Plantation (Rows) ☑ Managed for Pine ☐ Natural Forest

☐ Absent ☐ 0-1% ☐ 1-5% ☐ 6-25% ☑ 26-50% ☐ 51-75% ☐ 76-100%

4. Estimated height class of the majority of **TREES** using the following scale: ☐ absent ☐ 3-5m ☐ 6-10m ☑ >10m

List 3 dominant **TREE** species observed in canopy:

1. Pinus elliottii **2.** **3.**

5. Estimated height class of the majority of **SUBCANOPY** using the following scale: ☐ absent ☐ 3-5m ☑ 6-10m ☐ >10m

List 3 dominant **SUBCANOPY** species observed:

1. Pinus elliottii **2.** **3.**

6. SHRUBS % cover: ☐ Absent ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☑ 51-75% ☐ 76-100%

List 3 dominant **SHRUB** species observed:

1. Lyonia ferrugenia **2.** Ilex vomitoria **3.** Lyonia lucida

7. Estimated height class of the majority of **SHRUBS** using the following scale: ☐ absent ☐ 0-.5m ☑ .6-1.5m ☑ 1.6-3m

List 3 of the most common **SHRUB** and/or **TREE** seedlings observed:

1. **2.** **3.**

8. GROUNDCOVER % cover of graminoids (grasses, sedges and rushes):

☑ Absent ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

9. TOTAL GROUNDCOVER % cover (including graminiods and forbes):

☐ Absent ☐ 0-1% ☐ 1-5% ☑ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

List 4 dominant **GROUNDCOVER** species observed:

1. Lyonia lucida **2.** Ilex glabra

3. Serenoa repens **4.**

List 3 of the most common **GROUNDCOVER** seedlings observed:

1. **2.** **3.**

List the **WEEDY** or **RUDERAL** species observed:

1. **2.** **3.**

10. Tree density: ☐ appropriate ☑ inappropriate **Why?:** ☑ too dense ☐ too sparse
11. Tree health: ☐ trees healthy ☑ trees stressed **Why?:** ☑ too dense ☐ too wet

12. Hydrologic indicators: ☐ hydric soils ☐ sediment deposition ☐ algal mat/aufwuchs ☐ aquatic bryotphytes ☐ aquatic plants
☐ rafted debris ☐ elevated lichen lines ☐ aquatic fauna ☐ tussocks/hummocks ☐ secondary flow channels
☐ water stained vegetation/ stain lines ☐ morphological plant adaptations/adventitious roots/buttressed trunks/hypertrophied lenticles

13. Water table: ☐ at the surface ☑ below surface **Standing water:** ☐ present ☑ absent
14. Water color: ☐ tannic ☐ non-tannic/clear ☐ cloudy **If cloudy, why?** ☐ suspended sediments ☐ other:
15. Water column: ☐ sphagnum present ☐ utricularia present
16. Altered hydrology: ☐ soil subsidence / oxidation of muck ☐ exposed roots ☐ abnormal tree fall due to soil subsidence
☐ inappropriate vegetation ☐ lichen lines: ☐ typical ☐ abnormal

List inappropriate vegetation:

1. **2.** **3.**

4. **5.** **6.**

17. Wildlife usage and natural history observations: ☐ footprints ☐ scat ☐ herbivory observed ☑ bird nests/calls ☐ fish observed
☐ animal remains ☐ scratch marks ☐ frog calls ☐ arthropods observed ☐ reptiles observed ☐ mammals observed

Notes on wildlife useage observed:

Turkey vulture, cardinal, Blue heron, mosquitos

18. Exotic species: ☐ present ☑ absent

If present **must be georeferenced** and include the following information:

Species: **Location:** **latitude** **longitude**
% cover: ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

Species: **Location:** **latitude** **longitude**
% cover: ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

19. Notes on the general aspect of the site/techniques to meet restoration goals:

Is natural regeneration occuring? ☐ yes ☐ no **and:** ☑ species appropriate ☐ supplemental planting/seeding needed
Site is/has: ☑ fire suppressed ☐ appropriately managed ☐ secondary growth ☐ planted ☐ clear-cut
If planted: ☑ bedded and planted ☐ not bedded but managed for pine **~Tree age:** ☐ 0-5 yrs ☐ 6-10 yrs ☑ 11-20 yrs ☐ 20+ yrs
Recommendations for restoration: ☐ prescribed burn ☑ mechanical treatment **other:**

Specific notes on restoration, observations, or adaptive management techniques:

Continue prescribed burning and canopy reduction as per the mitigation plan

Site Name: Breakfast Point **Plant community type:** Hydric Pine Flatwoods

Transect ID: BPQT2_P3 **Date and time (am/pm):** 11/8/2006 ☑ AM ☐ PM

1. Weather: ☑ Full Sun ☐ Part Sun ☐ Cloudy ☐ Cloudy and Rain/Fog

2. Temperature: ☐ 20-50 F ☐ 51-70 F ☑ 71-90 F ☐ 91-110 F

3. CANOPY % cover: ☑ Pine Plantation (Rows) ☐ Managed for Pine ☐ Natural Forest

☐ Absent ☐ 0-1% ☐ 1-5% ☑ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

4. Estimated height class of the majority of **TREES** using the following scale: ☐ absent ☐ 3-5m ☐ 6-10m ☐ >10m

List 3 dominant **TREE** species observed in canopy:

1. Pinus elliottii **2.** **3.**

5. Estimated height class of the majority of **SUBCANOPY** using the following scale: ☐ absent ☐ 3-5m ☐ 6-10m ☑ >10m

List 3 dominant **SUBCANOPY** species observed:

1. Myrica cerifera **2.** Pinus elliottii **3.**

6. SHRUBS % cover: ☐ Absent ☐ 0-1% ☐ 1-5% ☑ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

List 3 dominant **SHRUB** species observed:

1. Myrica cerifera **2.** Illex vomitoria **3.**

7. Estimated height class of the majority of **SHRUB** using the following scale: ☐ Absent ☐ absent ☐ 0-.5m ☐ .6-1.5m ☑ 1.6-3m

List 3 of the most common **SHRUB** and/or **TREE** seedlings observed:

1. **2.** **3.**

8. GROUNDCOVER % cover of graminoids (grasses, sedges and rushes):

☐ Absent ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☑ 51-75% ☐ 76-100%

9. TOTAL GROUNDCOVER % cover (including graminiods and forbes):

☐ Absent ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☑ 51-75% ☐ 76-100%

List 4 dominant **GROUNDCOVER** species observed:

1. Pluchea sp **2.** Panicum spp

3. Juncus roemarianus **4.**

List 3 of the most common **GROUNDCOVER** seedlings observed:

1. **2.** **3.**

List the **WEEDY** or **RUDERAL** species observed:

1. **2.** **3.**

10. Tree density: ☐ appropriate ☑ inappropriate **Why?:** ☑ too dense ☐ too sparse
11. Tree health: ☐ trees healthy ☑ trees stressed **Why?:** ☐ too dense ☑ too wet

12. Hydrologic indicators: ☑ hydric soils ☐ sediment deposition ☐ algal mat/aufwuchs ☐ aquatic bryotphytes ☐ aquatic plants
☐ rafted debris ☐ elevated lichen lines ☐ aquatic fauna ☑ tussocks/hummocks ☐ secondary flow channels
☑ water stained vegetation/ stain lines ☑ morphological plant adaptations/adventitious roots/buttressed trunks/hypertrophied lenticles

13. Water table: ☑ at the surface ☐ below surface **Standing water:** ☑ present ☐ absent
14. Water color: ☑ tannic ☐ non-tannic/clear ☐ cloudy **If cloudy, why?** ☐ suspended sediments ☐ other:
15. Water column: ☐ sphagnum present ☐ utricularia present
16. Altered hydrology: ☐ soil subsidence / oxidation of muck ☐ exposed roots ☐ abnormal tree fall due to soil subsidence
☐ inappropriate vegetation ☐ lichen lines: ☐ typical ☑ abnormal

List inappropriate vegetation:

1. **2.** **3.**

4. **5.** **6.**

17. Wildlife usage and natural history observations: ☐ footprints ☐ scat ☐ herbivory observed ☑ bird nests/calls ☐ fish observed
☐ animal remains ☐ scratch marks ☐ frog calls ☑ arthropods observed ☐ reptiles observed ☐ mammals observed

Notes on wildlife useage observed:

mockinbird and crickets

18. Exotic species: ☑ present ☐ absent

If present **must be georeferenced** and include the following information:

Species: Sapium sebiferum **Location:** SAP BPQT-4 **latitude** **longitude**
% cover: ☐ 0-1% ☑ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

Species: **Location:** **latitude** **longitude**
% cover: ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

19. Notes on the general aspect of the site/techniques to meet restoration goals:

Is natural regeneration occuring? ☐ yes ☑ no **and:** ☐ species appropriate ☐ supplemental planting/seeding needed
Site is/has: ☑ fire suppressed ☐ appropriately managed ☐ secondary growth ☐ planted ☐ clear-cut
If planted: ☑ bedded and planted ☐ not bedded but managed for pine **~Tree age:** ☐ 0-5 yrs ☐ 6-10 yrs ☐ 11-20 yrs ☐ 20+ yrs
Recommendations for restoration: ☐ prescribed burn ☐ mechanical treatment **other:**

Specific notes on restoration, observations, or adaptive management techniques:

Continue prescribed burning and canopy reduction as per the mitigation plan

Site Name: Breakfast Point **Plant community type:** Hydric Pine Flatwoods

Transect ID: BPQT3_P1 **Date and time (am/pm):** 11/8/2006 ☐ AM ☑ PM

1. Weather: ☑ Full Sun ☐ Part Sun ☐ Cloudy ☐ Cloudy and Rain/Fog

2. Temperature: ☐ 20-50 F ☐ 51-70 F ☑ 71-90 F ☑ 91-110 F

3. CANOPY % cover: ☑ Pine Plantation (Rows) ☐ Managed for Pine ☑ Natural Forest

☐ Absent ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☑ 51-75% ☐ 76-100%

4. Estimated height class of the majority of **TREES** using the following scale: ☐ absent ☐ 3-5m ☐ 6-10m ☑ >10m

List 3 dominant **TREE** species observed in canopy:

1. Pinus elliottii **2.** Magnolia virginiana **3.**

5. Estimated height class of the majority of **SUBCANOPY** using the following scale: ☐ absent ☑ 3-5m ☐ 6-10m ☐ >10m

List 3 dominant **SUBCANOPY** species observed:

1. Pinus elliottii **2.** Magnolia virginiana **3.**

6. SHRUBS % cover: ☐ Absent ☐ 0-1% ☐ 1-5% ☐ 6-25% ☑ 26-50% ☐ 51-75% ☐ 76-100%

List 3 dominant **SHRUB** species observed:

1. Cyrilla racemiflora **2.** Nyssa ursina **3.** Myrica cerifera

7. Estimated height class of the majority of **SHRUBS** using the following scale: ☐ absent ☐ 0-.5m ☑ .6-1.5m ☐ 1.6-3m

List 3 of the most common **SHRUB** and/or **TREE** seedlings observed:

1. **2.** **3.**

8. GROUNDCOVER % cover of graminoids (grasses, sedges and rushes):

☑ Absent ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

9. TOTAL GROUNDCOVER % cover (including graminiods and forbes):

☐ Absent ☐ 0-1% ☑ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

List 4 dominant **GROUNDCOVER** species observed:

1. Osmunda sp. **2.** Toxicodendron radicans

3. Ilex glabra **4.**

List 3 of the most common **GROUNDCOVER** seedlings observed:

1. **2.** **3.**

List the **WEEDY** or **RUDERAL** species observed:

1. **2.** **3.**

10. Tree density: ☐ appropriate ☑ inappropriate **Why?:** ☑ too dense ☐ too sparse
11. Tree health: ☐ trees healthy ☐ trees stressed **Why?:** ☑ too dense ☐ too wet

12. Hydrologic indicators: ☐ hydric soils ☐ sediment deposition ☐ algal mat/aufwuchs ☐ aquatic bryotphytes ☐ aquatic plants ☐ rafted debris ☐ elevated lichen lines ☐ aquatic fauna ☐ tussocks/hummocks ☐ secondary flow channels ☐ water stained vegetation/ stain lines ☐ morphological plant adaptations/adventitious roots/buttressed trunks/hypertrophied lenticles

13. Water table: ☐ at the surface ☐ below surface **Standing water:** ☐ present ☑ absent
14. Water color: ☐ tannic ☐ non-tannic/clear ☐ cloudy **If cloudy, why?** ☐ suspended sediments ☐ other:
15. Water column: ☐ sphagnum present ☐ utricularia present
16. Altered hydrology: ☐ soil subsidence / oxidation of muck ☐ exposed roots ☐ abnormal tree fall due to soil subsidence ☐ inappropriate vegetation ☐ lichen lines: ☐ typical ☐ abnormal

List inappropriate vegetation:

1. **2.** **3.**

4. **5.** **6.**

17. Wildlife usage and natural history observations: ☑ footprints ☐ scat ☐ herbivory observed ☑ bird nests/calls ☐ fish observed ☐ animal remains ☐ scratch marks ☐ frog calls ☑ arthropods observed ☐ reptiles observed ☐ mammals observed

Notes on wildlife useage observed:

Deer , Warbler species, scorpion

18. Exotic species: ☐ present ☐ absent

If present **must be georeferenced** and include the following information:

Species: **Location:** **latitude** **longitude**
% cover: ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%
Species: **Location:** **latitude** **longitude**
% cover: ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

19. Notes on the general aspect of the site/techniques to meet restoration goals:

Is natural regeneration occuring? ☐ yes ☐ no **and:** ☐ species appropriate ☑ supplemental planting/seeding needed
Site is/has: ☑ fire suppressed ☐ appropriately managed ☐ secondary growth ☐ planted ☐ clear-cut
If planted: ☑ bedded and planted ☐ not bedded but managed for pine **~Tree age:** ☐ 0-5 yrs ☐ 6-10 yrs ☑ 11-20 yrs ☐ 20+ yrs
Recommendations for restoration: ☐ prescribed burn ☐ mechanical treatment **other:**

Specific notes on restoration, observations, or adaptive management techniques:

Continue prescribed burning and canopy reduction as per the mitigation plan

Site Name: Breakfast Point **Plant community type:** Hydric Pine Flatwoods

Transect ID: BPQT3_P2 **Date and time (am/pm):** 11/8/2004 ☐ AM ☑ PM

1. Weather: ☑ Full Sun ☐ Part Sun ☐ Cloudy ☐ Cloudy and Rain/Fog

2. Temperature: ☐ 20-50 F ☐ 51-70 F ☑ 71-90 F ☐ 91-110 F

3. CANOPY % cover: ☑ Pine Plantation (Rows) ☐ Managed for Pine ☐ Natural Forest

☐ Absent ☐ 0-1% ☐ 1-5% ☑ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

4. Estimated height class of the majority of **TREES** using the following scale: ☐ absent ☐ 3-5m ☑ 6-10m ☐ >10m

List 3 dominant **TREE** species observed in canopy:

1. Pinus elliottii **2.** **3.**

5. Estimated height class of the majority of **SUBCANOPY** using the following scale: ☐ absent ☑ 3-5m ☑ 6-10m ☐ >10m

List 3 dominant **SUBCANOPY** species observed:

1. Pinus elliottii **2.** **3.**

6. SHRUBS % cover: ☐ Absent ☐ 0-1% ☐ 1-5% ☑ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

List 3 dominant **SHRUB** species observed:

1. Nyssa ursina **2.** Myrica cerifera **3.**

7. Estimated height class of the majority of **SHRUBS** using the following scale: ☐ absent ☐ 0-.5m ☑ .6-1.5m ☑ 1.6-3m

List 3 of the most common **SHRUB** and/or **TREE** seedlings observed:

1. **2.** **3.**

8. GROUNDCOVER % cover of graminoids (grasses, sedges and rushes):

☐ Absent ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☑ 76-100%

9. TOTAL GROUNDCOVER % cover (including graminiods and forbes):

☐ Absent ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☑ 76-100%

List 4 dominant **GROUNDCOVER** species observed:

1. Cladium jamaicense **2.** Juncus roemarianus

3. Rubus sp **4.** Myrica heterophylla

List 3 of the most common **GROUNDCOVER** seedlings observed:

1. **2.** **3.**

List the **WEEDY** or **RUDERAL** species observed:

1. **2.** **3.**

10. Tree density: ☐ appropriate ☑ inappropriate **Why?:** ☑ too dense ☐ too sparse
11. Tree health: ☐ trees healthy ☑ trees stressed **Why?:** ☐ too dense ☑ too wet

12. Hydrologic indicators:
☑ hydric soils ☐ sediment deposition ☐ algal mat/aufwuchs ☐ aquatic bryotphytes ☐ aquatic plants
☐ rafted debris ☐ elevated lichen lines ☐ aquatic fauna ☑ tussocks/hummocks ☐ secondary flow channels
☑ water stained vegetation/ stain lines ☑ morphological plant adaptations/adventitious roots/buttressed trunks/hypertrophied lenticles

13. Water table: ☑ at the surface ☐ below surface **Standing water:** ☑ present ☐ absent
14. Water color: ☑ tannic ☐ non-tannic/clear ☐ cloudy **If cloudy, why?** ☐ suspended sediments ☐ other:
15. Water column: ☐ sphagnum present ☐ utricularia present
16. Altered hydrology: ☐ soil subsidence / oxidation of muck ☐ exposed roots ☐ abnormal tree fall due to soil subsidence
☐ inappropriate vegetation ☐ lichen lines: ☐ typical ☐ abnormal

List inappropriate vegetation:

1. **2.** **3.**

4. **5.** **6.**

17. Wildlife usage and natural history observations:
☐ footprints ☐ scat ☐ herbivory observed ☑ bird nests/calls ☐ fish observed
☐ animal remains ☐ scratch marks ☐ frog calls ☑ arthropods observed ☐ reptiles observed ☐ mammals observed

Notes on wildlife useage observed:

Osprey and crickets

18. Exotic species: ☐ present ☑ absent

If present **must be georeferenced** and include the following information:

Species: **Location:** **latitude** **longitude**
% cover: ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

Species: **Location:** **latitude** **longitude**
% cover: ☐ 0-1% ☐ 1-5% ☐ 6-25% ☑ 26-50% ☐ 51-75% ☐ 76-100%

19. Notes on the general aspect of the site/techniques to meet restoration goals:

Is natural regeneration occuring? ☐ yes ☐ no **and:** ☑ species appropriate ☐ supplemental planting/seeding needed
Site is/has: ☑ fire suppressed ☐ appropriately managed ☑ secondary growth ☑ planted ☐ clear-cut
If planted: ☑ bedded and planted ☐ not bedded but managed for pine **~Tree age:** ☐ 0-5 yrs ☐ 6-10 yrs ☑ 11-20 yrs ☐ 20+ yrs
Recommendations for restoration: ☐ prescribed burn ☑ mechanical treatment **other:**

Specific notes on restoration, observations, or adaptive management techniques:

Continue prescribed burning and canopy reduction as per the mitigation plan

Site Name: Breakfast Point **Plant community type:** Hydric Pine Flatwoods

Transect ID: BPQT3_P3 **Date and time (am/pm):** 11/8/2006 ☐ AM ☑ PM

1. Weather: ☑ Full Sun ☐ Part Sun ☐ Cloudy ☑ Cloudy and Rain/Fog

2. Temperature: ☐ 20-50 F ☐ 51-70 F ☑ 71-90 F ☐ 91-110 F

3. CANOPY % cover: ☑ Pine Plantation (Rows) ☐ Managed for Pine ☐ Natural Forest

☐ Absent ☐ 0-1% ☐ 1-5% ☑ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

4. Estimated height class of the majority of **TREES** using the following scale: ☐ absent ☐ 3-5m ☑ 6-10m ☐ >10m

List 3 dominant **TREE** species observed in canopy:

1. Pinus elliottii **2.** **3.**

5. Estimated height class of the majority of **SUBCANOPY** using the following scale: ☐ absent ☑ 3-5m ☑ 6-10m ☐ >10m

List 3 dominant **SUBCANOPY** species observed:

1. Pinus elliottii **2.** Sapium sebiferum **3.**

6. SHRUBS % cover: ☐ Absent ☐ 0-1% ☐ 1-5% ☐ 6-25% ☑ 26-50% ☐ 51-75% ☐ 76-100%

List 3 dominant **SHRUB** species observed:

1. Myrica cerifera **2.** **3.**

7. Estimated height class of the majority of **SHRUBS** using the following scale: ☐ absent ☐ 0-.5m ☐ .6-1.5m ☑ 1.6-3m

List 3 of the most common **SHRUB** and/or **TREE** seedlings observed:

1. Sapium sebiferum **2.** **3.**

8. GROUNDCOVER % cover of graminoids (grasses, sedges and rushes):

☐ Absent ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☑ 76-100%

9. TOTAL GROUNDCOVER % cover (including graminiods and forbes):

☐ Absent ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☑ 76-100%

List 4 dominant **GROUNDCOVER** species observed:

1. Panicum verrucosum **2.** Juncus romarianus

3. Pluchea spp **4.** Andropogon sp.

List 3 of the most common **GROUNDCOVER** seedlings observed:

1. **2.** **3.**

List the **WEEDY** or **RUDERAL** species observed:

1. **2.** **3.**

10. Tree density: ☐ appropriate ☑ inappropriate **Why?:** ☑ too dense ☐ too sparse
11. Tree health: ☐ trees healthy ☑ trees stressed **Why?:** ☐ too dense ☑ too wet

12. Hydrologic indicators: ☑ hydric soils ☐ sediment deposition ☐ algal mat/aufwuchs ☐ aquatic bryotphytes ☐ aquatic plants
☐ rafted debris ☐ elevated lichen lines ☐ aquatic fauna ☑ tussocks/hummocks ☐ secondary flow channels
☑ water stained vegetation/ stain lines ☑ morphological plant adaptations/adventitious roots/buttressed trunks/hypertrophied lenticles

13. Water table: ☑ at the surface ☐ below surface **Standing water:** ☑ present ☐ absent
14. Water color: ☑ tannic ☐ non-tannic/clear ☐ cloudy **If cloudy, why?** ☐ suspended sediments ☐ other:
15. Water column: ☐ sphagnum present ☐ utricularia present
16. Altered hydrology: ☐ soil subsidence / oxidation of muck ☐ exposed roots ☐ abnormal tree fall due to soil subsidence
☐ inappropriate vegetation ☐ lichen lines: ☐ typical ☐ abnormal

List inappropriate vegetation:

1. **2.** **3.**

4. **5.** **6.**

17. Wildlife usage and natural history observations: ☐ footprints ☑ scat ☐ herbivory observed ☐ bird nests/calls ☐ fish observed
☐ animal remains ☐ scratch marks ☐ frog calls ☑ arthropods observed ☐ reptiles observed ☐ mammals observed

Notes on wildlife useage observed:

Feral hog scat, mosquitos and dragonfly

18. Exotic species: ☑ present ☐ absent

If present **must be georeferenced** and include the following information:

Species: Sapium sebiferum **Location:** **latitude** **longitude**
% cover: ☐ 0-1% ☑ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

Species: **Location:** **latitude** **longitude**
% cover: ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

19. Notes on the general aspect of the site/techniques to meet restoration goals:

Is natural regeneration occuring? ☐ yes ☐ no **and:** ☐ species appropriate ☐ supplemental planting/seeding needed
Site is/has: ☑ fire suppressed ☐ appropriately managed ☑ secondary growth ☑ planted ☐ clear-cut
If planted: ☑ bedded and planted ☐ not bedded but managed for pine **~Tree age:** ☐ 0-5 yrs ☐ 6-10 yrs ☑ 11-20 yrs ☐ 20+ yrs
Recommendations for restoration: ☐ prescribed burn ☑ mechanical treatment **other:**

Specific notes on restoration, observations, or adaptive management techniques:

Continue prescribed burning and canopy reduction as per the mitigation plan

Site Name: Breakfast Point **Plant community type:** Wet Prairie / Seepage Slope

Transect ID: BPQT3_P4 **Date and time (am/pm):** 10/31/2006 ☐ AM ☑ PM

1. Weather: ☐ Full Sun ☑ Part Sun ☐ Cloudy ☐ Cloudy and Rain/Fog

2. Temperature: ☐ 20-50 F ☐ 51-70 F ☑ 71-90 F ☐ 91-110 F

3. CANOPY % cover: ☐ Pine Plantation (Rows) ☑ Managed for Pine ☐ Natural Forest

☑ Absent ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

4. Estimated height class of the majority of **TREES** using the following scale: ☐ absent ☑ 3-5m ☐ 6-10m ☐ >10m

List 3 dominant **TREE** species observed in canopy:

1. **2.** **3.**

5. Estimated height class of the majority of **SUBCANOPY** using the following scale: ☐ absent ☐ 3-5m ☐ 6-10m ☐ >10m

List 3 dominant **SUBCANOPY** species observed:

1. **2.** **3.**

6. SHRUBS % cover: ☐ Absent ☐ 0-1% ☐ 1-5% ☑ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

List 3 dominant **SHRUB** species observed:

1. Myrica cerifera **2.** **3.**

7. Estimated height class of the majority of **SHRUBS** using the following scale: ☐ absent ☐ 0-.5m ☐ .6-1.5m ☑ 1.6-3m

List 3 of the most common **SHRUB** and/or **TREE** seedlings observed:

1. **2.** **3.**

8. GROUNDCOVER % cover of graminoids (grasses, sedges and rushes):

☐ Absent ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☑ 76-100%

9. TOTAL GROUNDCOVER % cover (including graminiods and forbes):

☐ Absent ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☑ 76-100%

List 4 dominant **GROUNDCOVER** species observed:

1. Aristida stricta **2.** Ilex glabra

3. Liatris spicata **4.** serenoa repens

List 3 of the most common **GROUNDCOVER** seedlings observed:

1. **2.** **3.**

List the **WEEDY** or **RUDERAL** species observed:

1. Andropogon **2.** **3.**

10. Tree density: ☑ appropriate ☐ inappropriate **Why?:** ☐ too dense ☐ too sparse
11. Tree health: ☑ trees healthy ☐ trees stressed **Why?:** ☐ too dense ☐ too wet

12. Hydrologic indicators: ☑ hydric soils ☐ sediment deposition ☐ algal mat/aufwuchs ☐ aquatic bryotphytes ☐ aquatic plants
☐ rafted debris ☐ elevated lichen lines ☐ aquatic fauna ☑ tussocks/hummocks ☐ secondary flow channels
☐ water stained vegetation/ stain lines ☐ morphological plant adaptations/adventitious roots/buttressed trunks/hypertrophied lenticles

13. Water table: ☐ at the surface ☑ below surface **Standing water:** ☐ present ☑ absent
14. Water color: ☐ tannic ☐ non-tannic/clear ☐ cloudy **If cloudy, why?** ☐ suspended sediments ☐ other:
15. Water column: ☐ sphagnum present ☐ utricularia present
16. Altered hydrology: ☐ soil subsidence / oxidation of muck ☐ exposed roots ☐ abnormal tree fall due to soil subsidence
☐ inappropriate vegetation ☐ lichen lines: ☐ typical ☐ abnormal

List inappropriate vegetation:

1. **2.** **3.**

4. **5.** **6.**

17. Wildlife usage and natural history observations: ☐ footprints ☐ scat ☐ herbivory observed ☑ bird nests/calls ☐ fish observed
☐ animal remains ☐ scratch marks ☐ frog calls ☐ arthropods observed ☐ reptiles observed ☐ mammals observed

Notes on wildlife useage observed:

sparrows, chickadees

18. Exotic species: ☑ present ☐ absent

If present **must be georeferenced** and include the following information:

Species: Sabium sepferum **Location:** **latitude** **longitude**
% cover: ☑ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

Species: **Location:** **latitude** **longitude**
% cover: ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

19. Notes on the general aspect of the site/techniques to meet restoration goals:

Is natural regeneration occuring? ☐ yes ☐ no **and:** ☑ species appropriate ☐ supplemental planting/seeding needed
Site is/has: ☑ fire suppressed ☐ appropriately managed ☑ secondary growth ☐ planted ☐ clear-cut
If planted: ☐ bedded and planted ☑ not bedded but managed for pine **~Tree age:** ☐ 0-5 yrs ☐ 6-10 yrs ☐ 11-20 yrs ☐ 20+ yrs
Recommendations for restoration: ☑ prescribed burn ☐ mechanical treatment **other:**

Specific notes on restoration, observations, or adaptive management techniques:

Continue prescribed burning as per the mitigation plan

Site Name: Breakfast Point **Plant community type:** Cypress Flat

Transect ID: BPQT4_P1 **Date and time (am/pm):** 11/1/2006 ☐ AM ☑ PM

1. Weather: ☐ Full Sun ☑ Part Sun ☐ Cloudy ☐ Cloudy and Rain/Fog

2. Temperature: ☐ 20-50 F ☐ 51-70 F ☑ 71-90 F ☐ 91-110 F

3. CANOPY % cover: ☐ Pine Plantation (Rows) ☐ Managed for Pine ☑ Natural Forest

☐ Absent ☑ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

4. Estimated height class of the majority of **TREES** using the following scale: ☐ absent ☐ 3-5m ☑ 6-10m ☑ >10m

List 3 dominant **TREE** species observed in canopy:

1. Taxodium ascendens **2.** **3.**

5. Estimated height class of the majority of **SUBCANOPY** using the following scale: ☑ absent ☐ 3-5m ☐ 6-10m ☐ >10m

List 3 dominant **SUBCANOPY** species observed:

1. **2.** **3.**

6. SHRUBS % cover: ☐ Absent ☐ 0-1% ☐ 1-5% ☑ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

List 3 dominant **SHRUB** species observed:

1. Myrica cerifera **2.** Nyssa ursina **3.** Ilex myrtifolia

7. Estimated height class of the majority of **SHRUBS** using the following scale: ☐ absent ☐ 0-.5m ☑ .6-1.5m ☐ 1.6-3m

List 3 of the most common **SHRUB** and/or **TREE** seedlings observed:

1. Fraxinus caroliniana **2.** Myrica cerifera **3.** Ilex vomitoria

8. GROUNDCOVER % cover of graminoids (grasses, sedges and rushes):

☐ Absent ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☑ 51-75% ☐ 76-100%

9. TOTAL GROUNDCOVER % cover (including graminiods and forbes):

☐ Absent ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☑ 51-75% ☐ 76-100%

List 4 dominant **GROUNDCOVER** species observed:

1. Stillingia aquatica **2.** Amphicarpum muhlenbergianum

3. Rhynchospora spp. **4.** Cladium jamaicense

List 3 of the most common **GROUNDCOVER** seedlings observed:

1. **2.** **3.**

List the **WEEDY** or **RUDERAL** species observed:

1. **2.** **3.**

10. Tree density: ☑ appropriate ☐ inappropriate **Why?:** ☐ too dense ☐ too sparse
11. Tree health: ☑ trees healthy ☐ trees stressed **Why?:** ☐ too dense ☐ too wet

12. Hydrologic indicators: ☑ hydric soils ☑ sediment deposition ☐ algal mat/aufwuchs ☑ aquatic bryotphytes ☑ aquatic plants
☐ rafted debris ☑ elevated lichen lines ☑ aquatic fauna ☑ tussocks/hummocks ☐ secondary flow channels
☑ water stained vegetation/ stain lines ☑ morphological plant adaptations/adventitious roots/buttressed trunks/hypertrophied lenticles

13. Water table: ☑ at the surface ☐ below surface **Standing water:** ☑ present ☐ absent
14. Water color: ☑ tannic ☐ non-tannic/clear ☐ cloudy **If cloudy, why?** ☐ suspended sediments ☐ other:
15. Water column: ☐ sphagnum present ☐ utricularia present
16. Altered hydrology: ☐ soil subsidence / oxidation of muck ☑ exposed roots ☐ abnormal tree fall due to soil subsidence
☐ inappropriate vegetation ☐ lichen lines: ☐ typical ☐ abnormal

List inappropriate vegetation:

1. **2.** **3.**

4. **5.** **6.**

17. Wildlife usage and natural history observations: ☐ footprints ☐ scat ☐ herbivory observed ☑ bird nests/calls ☐ fish observed
☐ animal remains ☐ scratch marks ☐ frog calls ☑ arthropods observed ☐ reptiles observed ☐ mammals observed

Notes on wildlife useage observed:

Osprey, crickets, bees, dragonflies, mosquitos observed

18. Exotic species: ☐ present ☐ absent

If present **must be georeferenced** and include the following information:

Species: **Location:** **latitude** **longitude**
% cover: ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%
Species: **Location:** **latitude** **longitude**
% cover: ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

19. Notes on the general aspect of the site/techniques to meet restoration goals:
Is natural regeneration occuring? ☐ yes ☐ no **and:** ☑ species appropriate ☐ supplemental planting/seeding needed
Site is/has: ☐ fire suppressed ☑ appropriately managed ☐ secondary growth ☐ planted ☐ clear-cut
If planted: ☐ bedded and planted ☐ not bedded but managed for pine **~Tree age:** ☐ 0-5 yrs ☐ 6-10 yrs ☐ 11-20 yrs ☐ 20+ yrs
Recommendations for restoration: ☑ prescribed burn ☐ mechanical treatment **other:**

Specific notes on restoration, observations, or adaptive management techniques:

Continue prescribed burning as per the mitigation plan

Site Name: Breakfast Point **Plant community type:** Mixed Forested Wetland

Transect ID: BPQT4_P2 **Date and time (am/pm):** 11/1/2006 ☐ AM ☑ PM

1. Weather: ☐ Full Sun ☑ Part Sun ☐ Cloudy ☑ Cloudy and Rain/Fog

2. Temperature: ☐ 20-50 F ☐ 51-70 F ☑ 71-90 F ☐ 91-110 F

3. CANOPY % cover: ☐ Pine Plantation (Rows) ☑ Managed for Pine ☑ Natural Forest

☐ Absent ☐ 0-1% ☐ 1-5% ☐ 6-25% ☑ 26-50% ☐ 51-75% ☐ 76-100%

4. Estimated height class of the majority of **TREES** using the following scale: ☐ absent ☐ 3-5m ☐ 6-10m ☑ >10m

List 3 dominant **TREE** species observed in canopy:

1. Pinus elliottii **2.** Taxodium ascendens **3.**

5. Estimated height class of the majority of **SUBCANOPY** using the following scale: ☐ absent ☐ 3-5m ☑ 6-10m ☐ >10m

List 3 dominant **SUBCANOPY** species observed:

1. Pinus elliottii **2.** Taxodium ascendens **3.**

6. SHRUBS % cover: ☐ Absent ☐ 0-1% ☐ 1-5% ☑ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

List 3 dominant **SHRUB** species observed:

1. Cyrilla racemiflora **2.** Nyssa ursina **3.** Myrica cerifera

7. Estimated height class of the majority of **SHRUBS** using the following scale: ☐ absent ☐ 0-.5m ☑ .6-1.5m ☐ 1.6-3m

List 3 of the most common **SHRUB** and/or **TREE** seedlings observed:

1. Pinus elliottii **2.** **3.**

8. GROUNDCOVER % cover of graminoids (grasses, sedges and rushes):

☐ Absent ☐ 0-1% ☐ 1-5% ☑ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

9. TOTAL GROUNDCOVER % cover (including graminiods and forbes):

☐ Absent ☐ 0-1% ☐ 1-5% ☐ 6-25% ☑ 26-50% ☐ 51-75% ☐ 76-100%

List 4 dominant **GROUNDCOVER** species observed:

1. Rubus sp. **2.** Ludwigia sp.

3. Myrica cerifera **4.** Smilax laurifolia

List 3 of the most common **GROUNDCOVER** seedlings observed:

1. **2.** **3.**

List the **WEEDY** or **RUDERAL** species observed:

1. **2.** **3.**

10. Tree density: ☑ appropriate ☐ inappropriate **Why?:** ☐ too dense ☐ too sparse
11. Tree health: ☑ trees healthy ☐ trees stressed **Why?:** ☐ too dense ☐ too wet

12. Hydrologic indicators: ☑ hydric soils ☐ sediment deposition ☐ algal mat/aufwuchs ☑ aquatic bryotphytes ☑ aquatic plants
☐ rafted debris ☑ elevated lichen lines ☐ aquatic fauna ☑ tussocks/hummocks ☐ secondary flow channels
☑ water stained vegetation/ stain lines ☑ morphological plant adaptations/adventitious roots/buttressed trunks/hypertrophied lenticles

13. Water table: ☑ at the surface ☐ below surface **Standing water:** ☑ present ☐ absent
14. Water color: ☑ tannic ☐ non-tannic/clear ☐ cloudy **If cloudy, why?** ☐ suspended sediments ☐ other:
15. Water column: ☐ sphagnum present ☐ utricularia present
16. Altered hydrology: ☐ soil subsidence / oxidation of muck ☑ exposed roots ☐ abnormal tree fall due to soil subsidence
☐ inappropriate vegetation ☐ lichen lines: ☐ typical ☐ abnormal

List inappropriate vegetation:

1. **2.** **3.**

4. **5.** **6.**

17. Wildlife usage and natural history observations: ☑ footprints ☐ scat ☐ herbivory observed ☐ bird nests/calls ☐ fish observed
☐ animal remains ☐ scratch marks ☐ frog calls ☑ arthropods observed ☐ reptiles observed ☐ mammals observed

Notes on wildlife useage observed:

feral hog and deer tracks, mosquitos

18. Exotic species: ☐ present ☑ absent

If present **must be georeferenced** and include the following information:

Species: **Location:** **latitude** **longitude**
% cover: ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%
Species: **Location:** **latitude** **longitude**
% cover: ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

19. Notes on the general aspect of the site/techniques to meet restoration goals:
Is natural regeneration occuring? ☐ yes ☐ no **and:** ☑ species appropriate ☐ supplemental planting/seeding needed
Site is/has: ☑ fire suppressed ☐ appropriately managed ☐ secondary growth ☐ planted ☐ clear-cut
If planted: ☐ bedded and planted ☐ not bedded but managed for pine **~Tree age:** ☐ 0-5 yrs ☐ 6-10 yrs ☐ 11-20 yrs ☑ 20+ yrs
Recommendations for restoration: ☐ prescribed burn ☐ mechanical treatment **other:**

Specific notes on restoration, observations, or adaptive management techniques:

Allow fire to burn into wetland as per the mitigation plan

Site Name: Breakfast Point **Plant community type:** Hydric Pine Flatwoods

Transect ID: BPQT4_P3 **Date and time (am/pm):** 11/1/2006 ☐ AM ☑ PM

1. Weather: ☑ Full Sun ☐ Part Sun ☐ Cloudy ☐ Cloudy and Rain/Fog

2. Temperature: ☐ 20-50 F ☐ 51-70 F ☑ 71-90 F ☐ 91-110 F

3. CANOPY % cover: ☐ Pine Plantation (Rows) ☐ Managed for Pine ☐ Natural Forest

☐ Absent ☐ 0-1% ☐ 1-5% ☑ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

4. Estimated height class of the majority of **TREES** using the following scale: ☐ absent ☑ 3-5m ☐ 6-10m ☐ >10m

List 3 dominant **TREE** species observed in canopy:

1. Pinus elliottii **2.** **3.**

5. Estimated height class of the majority of **SUBCANOPY** using the following scale: ☐ absent ☑ 3-5m ☐ 6-10m ☐ >10m

List 3 dominant **SUBCANOPY** species observed:

1. Pinus elliottii **2.** **3.**

6. SHRUBS % cover: ☐ Absent ☐ 0-1% ☑ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

List 3 dominant **SHRUB** species observed:

1. Magnolia virginiana **2.** Myrica cerifera **3.**

7. Estimated height class of the majority of **SHRUBS** using the following scale: ☐ absent ☐ 0-.5m ☑ .6-1.5m ☐ 1.6-3m

List 3 of the most common **SHRUB** and/or **TREE** seedlings observed:

1. **2.** **3.**

8. GROUNDCOVER % cover of graminoids (grasses, sedges and rushes):

☐ Absent ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☑ 51-75% ☐ 76-100%

9. TOTAL GROUNDCOVER % cover (including graminiods and forbes):

☐ Absent ☐ 0-1% ☐ 1-5% ☑ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

List 4 dominant **GROUNDCOVER** species observed:

1. Lachnanthes caroliana **2.** Arista stricta

3. Clethera alnifolia **4.** Andropogon virginicus

List 3 of the most common **GROUNDCOVER** seedlings observed:

1. **2.** **3.**

List the **WEEDY** or **RUDERAL** species observed:

1. **2.** **3.**

10. Tree density: ☑ appropriate ☐ inappropriate **Why?:** ☐ too dense ☐ too sparse
11. Tree health: ☐ trees healthy ☑ trees stressed **Why?:** ☐ too dense ☑ too wet

12. Hydrologic indicators: ☑ hydric soils ☐ sediment deposition ☐ algal mat/aufwuchs ☐ aquatic bryotphytes ☐ aquatic plants
☐ rafted debris ☐ elevated lichen lines ☐ aquatic fauna ☐ tussocks/hummocks ☐ secondary flow channels
☐ water stained vegetation/ stain lines ☐ morphological plant adaptations/adventitious roots/buttressed trunks/hypertrophied lenticles

13. Water table: ☐ at the surface ☐ below surface **Standing water:** ☑ present ☐ absent
14. Water color: ☑ tannic ☐ non-tannic/clear ☐ cloudy **If cloudy, why?** ☐ suspended sediments ☐ other:
15. Water column: ☐ sphagnum present ☐ utricularia present
16. Altered hydrology: ☐ soil subsidence / oxidation of muck ☐ exposed roots ☐ abnormal tree fall due to soil subsidence
☐ inappropriate vegetation ☐ lichen lines: ☐ typical ☐ abnormal

List inappropriate vegetation:

1. **2.** **3.**

4. **5.** **6.**

17. Wildlife usage and natural history observations: ☑ footprints ☐ scat ☐ herbivory observed ☐ bird nests/calls ☐ fish observed
☑ animal remains ☐ scratch marks ☐ frog calls ☑ arthropods observed ☐ reptiles observed ☐ mammals observed

Notes on wildlife useage observed:

hog rutting was observed, mosquitos

18. Exotic species: ☑ present ☐ absent Hogs

If present **must be georeferenced** and include the following information:

Species: **Location:** **latitude** **longitude**
% cover: ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

Species: **Location:** **latitude** **longitude**
% cover: ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

19. Notes on the general aspect of the site/techniques to meet restoration goals:

Is natural regeneration occuring? ☐ yes ☐ no **and:** ☐ species appropriate ☑ supplemental planting/seeding needed
Site is/has: ☑ fire suppressed ☐ appropriately managed ☐ secondary growth ☐ planted ☐ clear-cut
If planted: ☐ bedded and planted ☐ not bedded but managed for pine **~Tree age:** ☐ 0-5 yrs ☐ 6-10 yrs ☐ 11-20 yrs ☐ 20+ yrs
Recommendations for restoration: ☐ prescribed burn ☐ mechanical treatment **other:**

Specific notes on restoration, observations, or adaptive management techniques:

Bedded and planted but 70% thinned, continue canopy reduction and prescribed burning as per the mitigation plan

Site Name: Breakfast Point **Plant community type:** Hydric Pine Flatwoods

Transect ID: BPQT4_P4 **Date and time (am/pm):** 11/1/2006 ☐ AM ☑ PM

1. Weather: ☑ Full Sun ☐ Part Sun ☐ Cloudy ☑ Cloudy and Rain/Fog

2. Temperature: ☐ 20-50 F ☐ 51-70 F ☑ 71-90 F ☐ 91-110 F

3. CANOPY % cover: ☑ Pine Plantation (Rows) ☐ Managed for Pine ☐ Natural Forest

☐ Absent ☐ 0-1% ☐ 1-5% ☐ 6-25% ☑ 26-50% ☐ 51-75% ☐ 76-100%

4. Estimated height class of the majority of **TREES** using the following scale: ☐ absent ☐ 3-5m ☑ 6-10m ☐ >10m

List 3 dominant **TREE** species observed in canopy:

1. Pinus elliottii **2.** **3.**

5. Estimated height class of the majority of **SUBCANOPY** using the following scale: ☑ absent ☐ 3-5m ☐ 6-10m ☐ >10m

List 3 dominant **SUBCANOPY** species observed:

1. **2.** **3.**

6. SHRUBS % cover: ☐ Absent ☐ 0-1% ☐ 1-5% ☑ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

List 3 dominant **SHRUB** species observed:

1. Myrica cerifera **2.** Ilex vomitoria **3.** Ilex glabra

7. Estimated height class of the majority of **SHRUBS** using the following scale: ☐ absent ☐ 0-.5m ☐ .6-1.5m ☑ 1.6-3m

List 3 of the most common **SHRUB** and/or **TREE** seedlings observed:

1. **2.** **3.**

8. GROUNDCOVER % cover of graminoids (grasses, sedges and rushes):

☐ Absent ☐ 0-1% ☐ 1-5% ☑ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

9. TOTAL GROUNDCOVER % cover (including graminiods and forbes):

☐ Absent ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☑ 51-75% ☐ 76-100%

List 4 dominant **GROUNDCOVER** species observed:

1. Juncu romarianus **2.** Stillingia aquatica

3. Pluchea foetida **4.** Sagittaria lancifolia

List 3 of the most common **GROUNDCOVER** seedlings observed:

1. **2.** **3.**

List the **WEEDY** or **RUDERAL** species observed:

1. **2.** **3.**

10. Tree density: ☐ appropriate ☑ inappropriate **Why?:** ☑ too dense ☐ too sparse
11. Tree health: ☐ trees healthy ☑ trees stressed **Why?:** ☑ too dense ☑ too wet

12. Hydrologic indicators: ☑ hydric soils ☐ sediment deposition ☐ algal mat/aufwuchs ☐ aquatic bryotphytes ☑ aquatic plants ☐ rafted debris ☐ elevated lichen lines ☐ aquatic fauna ☑ tussocks/hummocks ☐ secondary flow channels ☐ water stained vegetation/ stain lines ☐ morphological plant adaptations/adventitious roots/buttressed trunks/hypertrophied lenticles

13. Water table: ☐ at the surface ☐ below surface **Standing water:** ☑ present ☐ absent
14. Water color: ☑ tannic ☐ non-tannic/clear ☐ cloudy **If cloudy, why?** ☐ suspended sediments ☐ other:
15. Water column: ☐ sphagnum present ☐ utricularia present
16. Altered hydrology: ☐ soil subsidence / oxidation of muck ☐ exposed roots ☐ abnormal tree fall due to soil subsidence ☐ inappropriate vegetation ☐ lichen lines: ☐ typical ☐ abnormal

List inappropriate vegetation:

1. **2.** **3.**

4. **5.** **6.**

17. Wildlife usage and natural history observations: ☑ footprints ☐ scat ☐ herbivory observed ☐ bird nests/calls ☐ fish observed ☐ animal remains ☐ scratch marks ☑ frog calls ☑ arthropods observed ☐ reptiles observed ☐ mammals observed

Notes on wildlife useage observed:

signs of hog including rutting, frogs, crickets, mosquitos and scorpions

18. Exotic species: ☐ present ☐ absent

If present **must be georeferenced** and include the following information:

Species: **Location:** **latitude** **longitude**
% cover: ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%
Species: **Location:** **latitude** **longitude**
% cover: ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

19. Notes on the general aspect of the site/techniques to meet restoration goals:

Is natural regeneration occuring? ☐ yes ☐ no **and:** ☐ species appropriate ☑ supplemental planting/seeding needed
Site is/has: ☑ fire suppressed ☐ appropriately managed ☐ secondary growth ☐ planted ☐ clear-cut
If planted: ☑ bedded and planted ☐ not bedded but managed for pine **~Tree age:** ☐ 0-5 yrs ☐ 6-10 yrs ☐ 11-20 yrs ☐ 20+ yrs
Recommendations for restoration: ☐ prescribed burn ☑ mechanical treatment **other:**

Specific notes on restoration, observations, or adaptive management techniques:

Continue canopy reduction and prescribed fire as per the mitigation plan

Site Name: Breakfast Point **Plant community type:** Cypress Flat

Transect ID: BPQT4_P5 **Date and time (am/pm):** 12/21/2004 ☐ AM ☑ PM

1. Weather: ☑ Full Sun ☐ Part Sun ☐ Cloudy ☐ Cloudy and Rain/Fog

2. Temperature: ☐ 20-50 F ☐ 51-70 F ☑ 71-90 F ☑ 91-110 F

3. CANOPY % cover: ☑ Pine Plantation (Rows) ☐ Managed for Pine ☐ Natural Forest

☐ Absent ☐ 0-1% ☑ 1-5% ☐ 6-25% ☐ 26-50% ☑ 51-75% ☐ 76-100%

4. Estimated height class of the majority of **TREES** using the following scale: ☐ absent ☐ 3-5m ☑ 6-10m ☐ >10m

List 3 dominant **TREE** species observed in canopy:

1. Pinus elliottii **2.** Taxodium acendens **3.**

5. Estimated height class of the majority of **SUBCANOPY** using the following scale: ☐ absent ☐ 3-5m ☑ 6-10m ☐ >10m

List 3 dominant **SUBCANOPY** species observed:

1. Pinus elliottii **2.** Taxodium acendens **3.**

6. SHRUBS % cover: ☐ Absent ☐ 0-1% ☐ 1-5% ☑ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

List 3 dominant **SHRUB** species observed:

1. Myrica cerifera **2.** Nyssa ursina **3.**

7. Estimated height class of the majority of **SHRUBS** using the following scale: ☐ absent ☐ 0-.5m ☐ .6-1.5m ☐ 1.6-3m

List 3 of the most common **SHRUB** and/or **TREE** seedlings observed:

1. **2.** **3.**

8. GROUNDCOVER % cover of graminoids (grasses, sedges and rushes):

☐ Absent ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☑ 76-100%

9. TOTAL GROUNDCOVER % cover (including graminiods and forbes):

☐ Absent ☐ 0-1% ☐ 1-5% ☐ 6-25% ☑ 26-50% ☐ 51-75% ☑ 76-100%

List 4 dominant **GROUNDCOVER** species observed:

1. Sagitaria latifolia **2.** Panicum verrucosum

3. Juncus romanianus **4.**

List 3 of the most common **GROUNDCOVER** seedlings observed:

1. Toxicodendron radicans **2.** **3.**

List the **WEEDY** or **RUDERAL** species observed:

1. **2.** **3.**

10. Tree density: ☐ appropriate ☑ inappropriate **Why?:** ☑ too dense ☐ too sparse
11. Tree health: ☐ trees healthy ☑ trees stressed **Why?:** ☐ too dense ☑ too wet

12. Hydrologic indicators: ☑ hydric soils ☐ sediment deposition ☐ algal mat/aufwuchs ☐ aquatic bryotphytes ☐ aquatic plants
☐ rafted debris ☐ elevated lichen lines ☐ aquatic fauna ☑ tussocks/hummocks ☐ secondary flow channels
☑ water stained vegetation/ stain lines ☑ morphological plant adaptations/adventitious roots/buttressed trunks/hypertrophied lenticles

13. Water table: ☑ at the surface ☐ below surface **Standing water:** ☑ present ☐ absent
14. Water color: ☑ tannic ☐ non-tannic/clear ☐ cloudy **If cloudy, why?** ☐ suspended sediments ☐ other:
15. Water column: ☐ sphagnum present ☐ utricularia present
16. Altered hydrology: ☐ soil subsidence / oxidation of muck ☐ exposed roots ☐ abnormal tree fall due to soil subsidence
☐ inappropriate vegetation ☐ lichen lines: ☐ typical ☐ abnormal

List inappropriate vegetation:

1. **2.** **3.**

4. **5.** **6.**

17. Wildlife usage and natural history observations: ☐ footprints ☐ scat ☐ herbivory observed ☑ bird nests/calls ☐ fish observed
☐ animal remains ☐ scratch marks ☐ frog calls ☑ arthropods observed ☐ reptiles observed ☐ mammals observed

Notes on wildlife useage observed:

Sparrows and dragonfly

18. Exotic species: ☐ present ☑ absent

If present **must be georeferenced** and include the following information:

Species: **Location:** **latitude** **longitude**
% cover: ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%
Species: **Location:** **latitude** **longitude**
% cover: ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

19. Notes on the general aspect of the site/techniques to meet restoration goals:
Is natural regeneration occuring? ☐ yes ☑ no **and:** ☑ species appropriate ☐ supplemental planting/seeding needed
Site is/has: ☑ fire suppressed ☐ appropriately managed ☐ secondary growth ☐ planted ☐ clear-cut
If planted: ☑ bedded and planted ☐ not bedded but managed for pine **~Tree age:** ☐ 0-5 yrs ☐ 6-10 yrs ☐ 11-20 yrs ☐ 20+ yrs
Recommendations for restoration: ☐ prescribed burn ☐ mechanical treatment **other:**

Specific notes on restoration, observations, or adaptive management techniques:

Continue canopy reduction and prescribed burning as per the mitigation plan

Site Name: Breakfast Point **Plant community type:** Freshwater Marsh

Transect ID: BPQT4_P6 **Date and time (am/pm):** 12/21/2004 ☐ AM ☑ PM

1. Weather: ☑ Full Sun ☐ Part Sun ☐ Cloudy ☐ Cloudy and Rain/Fog

2. Temperature: ☐ 20-50 F ☑ 51-70 F ☐ 71-90 F ☐ 91-110 F

3. CANOPY % cover: ☑ Pine Plantation (Rows) ☐ Managed for Pine ☐ Natural Forest

☐ Absent ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☑ 51-75% ☐ 76-100%

4. Estimated height class of the majority of **TREES** using the following scale: ☐ absent ☐ 3-5m ☑ 6-10m ☐ >10m

List 3 dominant **TREE** species observed in canopy:

1. Pinus elliottii **2.** **3.**

5. Estimated height class of the majority of **SUBCANOPY** using the following scale: ☐ absent ☐ 3-5m ☑ 6-10m ☐ >10m

List 3 dominant **SUBCANOPY** species observed:

1. Pinus elliottii **2.** **3.**

6. SHRUBS % cover: ☐ Absent ☐ 0-1% ☐ 1-5% ☑ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

List 3 dominant **SHRUB** species observed:

1. Ilex vomitoria **2.** Photinia pyrifolia (=Aronia arbutifolia) **3.** Myrica cerifera

7. Estimated height class of the majority of **SHRUBS** using the following scale: ☐ absent ☐ 0-.5m ☑ .6-1.5m ☐ 1.6-3m

List 3 of the most common **SHRUB** and/or **TREE** seedlings observed:

1. Myrica cerifera **2.** Ilex vomitoria **3.**

8. GROUNDCOVER % cover of graminoids (grasses, sedges and rushes):

☐ Absent ☐ 0-1% ☑ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

9. TOTAL GROUNDCOVER % cover (including graminiods and forbes):

☐ Absent ☐ 0-1% ☐ 1-5% ☐ 6-25% ☑ 26-50% ☐ 51-75% ☐ 76-100%

List 4 dominant **GROUNDCOVER** species observed:

1. Spartina patens **2.** Andropogon virginicus

3. Juncus roemarianus **4.** Panicum scabriusculum (=Dicanthelium scabr.)

List 3 of the most common **GROUNDCOVER** seedlings observed:

1. Andropogon virginicus **2.** Panicum scabriusculum (=Dicantheliu **3.**

List the **WEEDY** or **RUDERAL** species observed:

1. **2.** **3.**

10. Tree density: ☐ appropriate ☑ inappropriate **Why?:** ☑ too dense ☐ too sparse
11. Tree health: ☐ trees healthy ☑ trees stressed **Why?:** ☑ too dense ☑ too wet

12. Hydrologic indicators:
☐ hydric soils ☐ sediment deposition ☑ algal mat/aufwuchs ☐ aquatic bryotphytes ☐ aquatic plants
☐ rafted debris ☐ elevated lichen lines ☑ aquatic fauna ☑ tussocks/hummocks ☐ secondary flow channels
☑ water stained vegetation/ stain lines ☑ morphological plant adaptations/adventitious roots/buttressed trunks/hypertrophied lenticles

13. Water table: ☑ at the surface ☐ below surface **Standing water:** ☑ present ☐ absent
14. Water color: ☑ tannic ☐ non-tannic/clear ☐ cloudy **If cloudy, why?** ☐ suspended sediments ☐ other:
15. Water column: ☐ sphagnum present ☐ utricularia present
16. Altered hydrology: ☐ soil subsidence / oxidation of muck ☐ exposed roots ☐ abnormal tree fall due to soil subsidence
☐ inappropriate vegetation ☐ lichen lines: ☐ typical ☐ abnormal

List inappropriate vegetation:

1. **2.** **3.**
4. **5.** **6.**

17. Wildlife usage and natural history observations:
☑ footprints ☑ scat ☐ herbivory observed ☐ bird nests/calls ☐ fish observed
☐ animal remains ☐ scratch marks ☑ frog calls ☑ arthropods observed ☐ reptiles observed ☐ mammals observed

Notes on wildlife useage observed:

White-tailed Deer (Odocoileus virginianus fer) scat seen; mosquitos and sand gnats biting

18. Exotic species: ☐ present ☑ absent

If present **must be georeferenced** and include the following information:

Species: **Location:** **latitude** **longitude**
% cover: ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%
Species: **Location:** **latitude** **longitude**
% cover: ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

19. Notes on the general aspect of the site/techniques to meet restoration goals:
Is natural regeneration occuring? ☐ yes ☑ no **and:** ☐ species appropriate ☐ supplemental planting/seeding needed
Site is/has: ☑ fire suppressed ☐ appropriately managed ☐ secondary growth ☑ planted ☐ clear-cut
If planted: ☑ bedded and planted ☐ not bedded but managed for pine **~Tree age:** ☐ 0-5 yrs ☐ 6-10 yrs ☑ 11-20 yrs ☐ 20+ yrs
Recommendations for restoration: ☑ prescribed burn ☐ mechanical treatment **other:**

Specific notes on restoration, observations, or adaptive management techniques:

Continue canopy reduction and prescribed burning as per the mitigation plan

Site Name: Breakfast Point **Plant community type:** Cypress Flat

Transect ID: BPQT4_P7 **Date and time (am/pm):** 12/21/2004 ☐ AM ☑ PM

1. Weather: ☑ Full Sun ☐ Part Sun ☐ Cloudy ☐ Cloudy and Rain/Fog

2. Temperature: ☐ 20-50 F ☑ 51-70 F ☐ 71-90 F ☐ 91-110 F

3. CANOPY % cover: ☑ Pine Plantation (Rows) ☐ Managed for Pine ☐ Natural Forest

☐ Absent ☐ 0-1% ☑ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

4. Estimated height class of the majority of **TREES** using the following scale: ☐ absent ☐ 3-5m ☑ 6-10m ☐ >10m

List 3 dominant **TREE** species observed in canopy:

1. Pinus elliottii **2.** **3.**

5. Estimated height class of the majority of **SUBCANOPY** using the following scale: ☐ absent ☑ 3-5m ☐ 6-10m ☐ >10m

List 3 dominant **SUBCANOPY** species observed:

1. Taxodium ascendens **2.** Pinus elliottii **3.**

6. SHRUBS % cover: ☐ Absent ☐ 0-1% ☐ 1-5% ☐ 6-25% ☑ 26-50% ☐ 51-75% ☐ 76-100%

List 3 dominant **SHRUB** species observed:

1. Myrica cerifera **2.** Fraxinus caroliniana **3.** Ilex vomitoria

7. Estimated height class of the majority of **SHRUBS** using the following scale: ☐ absent ☐ 0-.5m ☐ .6-1.5m ☑ 1.6-3m

List 3 of the most common **SHRUB** and/or **TREE** seedlings observed:

1. Myrica cerifera **2.** Taxodium ascendens **3.**

8. GROUNDCOVER % cover of graminoids (grasses, sedges and rushes):

☐ Absent ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☑ 51-75% ☐ 76-100%

9. TOTAL GROUNDCOVER % cover (including graminiods and forbes):

☐ Absent ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☑ 51-75% ☐ 76-100%

List 4 dominant **GROUNDCOVER** species observed:

1. Spartina patens **2.** Rubus argutus

3. Cladium jamaicense **4.** Hypericum fasciculatum

List 3 of the most common **GROUNDCOVER** seedlings observed:

1. **2.** **3.**

List the **WEEDY** or **RUDERAL** species observed:

1. **2.** **3.**

10. Tree density: ☑ appropriate ☐ inappropriate **Why?:** ☐ too dense ☐ too sparse
11. Tree health: ☑ trees healthy ☐ trees stressed **Why?:** ☐ too dense ☐ too wet

12. Hydrologic indicators:
☑ hydric soils ☐ sediment deposition ☑ algal mat/aufwuchs ☐ aquatic bryotphytes ☐ aquatic plants
☐ rafted debris ☐ elevated lichen lines ☑ aquatic fauna ☑ tussocks/hummocks ☐ secondary flow channels
☑ water stained vegetation/ stain lines ☑ morphological plant adaptations/adventitious roots/buttressed trunks/hypertrophied lenticles

13. Water table: ☑ at the surface ☐ below surface **Standing water:** ☑ present ☐ absent
14. Water color: ☑ tannic ☐ non-tannic/clear ☐ cloudy **If cloudy, why?** ☐ suspended sediments ☐ other:
15. Water column: ☑ sphagnum present ☐ utricularia present
16. Altered hydrology: ☐ soil subsidence / oxidation of muck ☐ exposed roots ☐ abnormal tree fall due to soil subsidence
☐ inappropriate vegetation ☐ lichen lines: ☐ typical ☐ abnormal

List inappropriate vegetation:

1. **2.** **3.**
4. **5.** **6.**

17. Wildlife usage and natural history observations:
☐ footprints ☐ scat ☐ herbivory observed ☑ bird nests/calls ☐ fish observed
☐ animal remains ☐ scratch marks ☐ frog calls ☑ arthropods observed ☐ reptiles observed ☐ mammals observed

Notes on wildlife useage observed:

Eastern towhee was heard; biting mosquitos and sand gnats

18. Exotic species: ☐ present ☑ absent

If present **must be georeferenced** and include the following information:

Species: **Location:** **latitude** **longitude**
% cover: ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%
Species: **Location:** **latitude** **longitude**
% cover: ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

19. Notes on the general aspect of the site/techniques to meet restoration goals:
Is natural regeneration occuring? ☑ yes ☐ no **and:** ☐ species appropriate ☐ supplemental planting/seeding needed
Site is/has: ☑ fire suppressed ☐ appropriately managed ☑ secondary growth ☐ planted ☐ clear-cut
If planted: ☐ bedded and planted ☑ not bedded but managed for pine **~Tree age:** ☐ 0-5 yrs ☐ 6-10 yrs ☐ 11-20 yrs ☐ 20+ yrs
Recommendations for restoration: ☑ prescribed burn ☐ mechanical treatment **other:**

Specific notes on restoration, observations, or adaptive management techniques:

Continue canopy reduction and prescribed burning as per the mitigation plan

Site Name: Breakfast Point **Plant community type:** Cypress Flat

Transect ID: BPQT5_P1 **Date and time (am/pm):** 11/7/2006 ☑ AM ☐ PM

1. Weather: ☐ Full Sun ☑ Part Sun ☐ Cloudy ☐ Cloudy and Rain/Fog

2. Temperature: ☐ 20-50 F ☑ 51-70 F ☐ 71-90 F ☐ 91-110 F

3. CANOPY % cover: ☐ Pine Plantation (Rows) ☐ Managed for Pine ☐ Natural Forest

☐ Absent ☐ 0-1% ☑ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

4. Estimated height class of the majority of **TREES** using the following scale: ☐ absent ☐ 3-5m ☑ 6-10m ☐ >10m

List 3 dominant **TREE** species observed in canopy:

1. Nyssa sylvatica **2.** Taxodium ascendens **3.**

5. Estimated height class of the majority of **SUBCANOPY** using the following scale: ☐ absent ☑ 3-5m ☑ 6-10m ☐ >10m

List 3 dominant **SUBCANOPY** species observed:

1. Nyssa sylvatica **2.** Taxodium ascendens **3.**

6. SHRUBS % cover: ☐ Absent ☐ 0-1% ☑ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

List 3 dominant **SHRUB** species observed:

1. Myrica cerifera **2.** Ilex myrtifolia **3.**

7. Estimated height class of the majority of **SHRUBS** using the following scale: ☐ absent ☐ 0-.5m ☑ .6-1.5m ☐ 1.6-3m

List 3 of the most common **SHRUB** and/or **TREE** seedlings observed:

1. Myrica cerifera **2.** **3.**

8. GROUNDCOVER % cover of graminoids (grasses, sedges and rushes):

☐ Absent ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☑ 76-100%

9. TOTAL GROUNDCOVER % cover (including graminiods and forbes):

☐ Absent ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

List 4 dominant **GROUNDCOVER** species observed:

1. Cladium jamaicense **2.** Panicum virgatum

3. Spartina sp. **4.** Sagittaria sp.

List 3 of the most common **GROUNDCOVER** seedlings observed:

1. **2.** **3.**

List the **WEEDY** or **RUDERAL** species observed:

1. **2.** **3.**

10. Tree density: ☑ appropriate ☐ inappropriate **Why?:** ☐ too dense ☐ too sparse
11. Tree health: ☑ trees healthy ☐ trees stressed **Why?:** ☐ too dense ☐ too wet

12. Hydrologic indicators:
☑ hydric soils ☐ sediment deposition ☐ algal mat/aufwuchs ☐ aquatic bryotphytes ☑ aquatic plants
☐ rafted debris ☐ elevated lichen lines ☐ aquatic fauna ☑ tussocks/hummocks ☐ secondary flow channels
☑ water stained vegetation/ stain lines ☑ morphological plant adaptations/adventitious roots/buttressed trunks/hypertrophied lenticles

13. Water table: ☑ at the surface ☐ below surface **Standing water:** ☑ present ☐ absent
14. Water color: ☑ tannic ☐ non-tannic/clear ☐ cloudy **If cloudy, why?** ☐ suspended sediments ☐ other:
15. Water column: ☐ sphagnum present ☐ utricularia present
16. Altered hydrology: ☐ soil subsidence / oxidation of muck ☐ exposed roots ☐ abnormal tree fall due to soil subsidence
☐ inappropriate vegetation ☐ lichen lines: ☐ typical ☐ abnormal

List inappropriate vegetation:

1. **2.** **3.**
4. **5.** **6.**

17. Wildlife usage and natural history observations:
☐ footprints ☐ scat ☐ herbivory observed ☐ bird nests/calls ☐ fish observed
☐ animal remains ☐ scratch marks ☐ frog calls ☑ arthropods observed ☐ reptiles observed ☐ mammals observed

Notes on wildlife useage observed:

bumble bee

18. Exotic species: ☐ present ☑ absent

If present **must be georeferenced** and include the following information:

Species: **Location:** **latitude** **longitude**
% cover: ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%
Species: **Location:** **latitude** **longitude**
% cover: ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

19. Notes on the general aspect of the site/techniques to meet restoration goals:
Is natural regeneration occuring? ☐ yes ☐ no **and:** ☑ species appropriate ☐ supplemental planting/seeding needed
Site is/has: ☑ fire suppressed ☐ appropriately managed ☐ secondary growth ☐ planted ☐ clear-cut
If planted: ☐ bedded and planted ☐ not bedded but managed for pine **~Tree age:** ☐ 0-5 yrs ☐ 6-10 yrs ☐ 11-20 yrs ☐ 20+ yrs
Recommendations for restoration: ☐ prescribed burn ☐ mechanical treatment **other:**

Specific notes on restoration, observations, or adaptive management techniques:

Allow seedling pond cypress to revegetate this area, Continue prescribed burning as per the mitigation plan.

Site Name: Breakfast Point **Plant community type:** Mesic Pine Flatwoods

Transect ID: BPQT5_P2 **Date and time (am/pm):** 11/7/2006 ☑ AM ☐ PM

1. Weather: ☐ Full Sun ☑ Part Sun ☐ Cloudy ☑ Cloudy and Rain/Fog

2. Temperature: ☐ 20-50 F ☑ 51-70 F ☐ 71-90 F ☐ 91-110 F

3. CANOPY % cover: ☑ Pine Plantation (Rows) ☐ Managed for Pine ☐ Natural Forest

☐ Absent ☐ 0-1% ☐ 1-5% ☐ 6-25% ☑ 26-50% ☐ 51-75% ☐ 76-100%

4. Estimated height class of the majority of **TREES** using the following scale: ☐ absent ☐ 3-5m ☐ 6-10m ☑ >10m

List 3 dominant **TREE** species observed in canopy:

1. Pinus elliottii **2.** **3.**

5. Estimated height class of the majority of **SUBCANOPY** using the following scale: ☑ absent ☐ 3-5m ☐ 6-10m ☐ >10m

List 3 dominant **SUBCANOPY** species observed:

1. **2.** **3.**

6. SHRUBS % cover: ☐ Absent ☐ 0-1% ☐ 1-5% ☑ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

List 3 dominant **SHRUB** species observed:

1. Ilex glabra **2.** **3.**

7. Estimated height class of the majority of **SHRUBS** using the following scale: ☐ absent ☐ 0-.5m ☑ .6-1.5m ☐ 1.6-3m

List 3 of the most common **SHRUB** and/or **TREE** seedlings observed:

1. **2.** **3.**

8. GROUNDCOVER % cover of graminoids (grasses, sedges and rushes):

☐ Absent ☑ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

9. TOTAL GROUNDCOVER % cover (including graminiods and forbes):

☐ Absent ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☑ 51-75% ☐ 76-100%

List 4 dominant **GROUNDCOVER** species observed:

1. Serenoa repens **2.** Pteridium aqualinum

3. Ilex glabra **4.** Lyonia lucida

List 3 of the most common **GROUNDCOVER** seedlings observed:

1. **2.** **3.**

List the **WEEDY** or **RUDERAL** species observed:

1. **2.** **3.**

10. Tree density: ☐ appropriate ☑ inappropriate **Why?:** ☑ too dense ☐ too sparse
11. Tree health: ☐ trees healthy ☑ trees stressed **Why?:** ☑ too dense ☐ too wet

12. Hydrologic indicators: ☐ hydric soils ☐ sediment deposition ☐ algal mat/aufwuchs ☐ aquatic bryotphytes ☐ aquatic plants
☐ rafted debris ☐ elevated lichen lines ☐ aquatic fauna ☐ tussocks/hummocks ☐ secondary flow channels
☐ water stained vegetation/ stain lines ☐ morphological plant adaptations/adventitious roots/buttressed trunks/hypertrophied lenticles

13. Water table: ☐ at the surface ☑ below surface **Standing water:** ☐ present ☑ absent
14. Water color: ☐ tannic ☐ non-tannic/clear ☐ cloudy **If cloudy, why?** ☐ suspended sediments ☐ other:
15. Water column: ☐ sphagnum present ☐ utricularia present
16. Altered hydrology: ☐ soil subsidence / oxidation of muck ☐ exposed roots ☐ abnormal tree fall due to soil subsidence
☐ inappropriate vegetation ☐ lichen lines: ☐ typical ☐ abnormal

List inappropriate vegetation:

1. **2.** **3.**

4. **5.** **6.**

17. Wildlife usage and natural history observations: ☐ footprints ☑ scat ☑ herbivory observed ☐ bird nests/calls ☐ fish observed
☐ animal remains ☐ scratch marks ☐ frog calls ☑ arthropods observed ☐ reptiles observed ☐ mammals observed

Notes on wildlife useage observed:

deer bedding and scat observed, mosquitos

18. Exotic species: ☐ present ☑ absent

If present **must be georeferenced** and include the following information:

Species: **Location:** **latitude** **longitude**
% cover: ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%
Species: **Location:** **latitude** **longitude**
% cover: ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

19. Notes on the general aspect of the site/techniques to meet restoration goals:
Is natural regeneration occuring? ☐ yes ☐ no **and:** ☐ species appropriate ☐ supplemental planting/seeding needed
Site is/has: ☑ fire suppressed ☐ appropriately managed ☐ secondary growth ☐ planted ☐ clear-cut
If planted: ☑ bedded and planted ☐ not bedded but managed for pine **~Tree age:** ☐ 0-5 yrs ☐ 6-10 yrs ☑ 11-20 yrs ☐ 20+ yrs
Recommendations for restoration: ☑ prescribed burn ☑ mechanical treatment **other:**

Specific notes on restoration, observations, or adaptive management techniques:

Continue canopy reduction and prescribed burning as per the mitigation plan

Site Name: Breakfast Point **Plant community type:** Mesic Pine Flatwoods

Transect ID: BPQT6_P1 **Date and time (am/pm):** 11/20/2004 ☑ AM ☐ PM

1. Weather: ☐ Full Sun ☐ Part Sun ☑ Cloudy ☐ Cloudy and Rain/Fog

2. Temperature: ☐ 20-50 F ☑ 51-70 F ☐ 71-90 F ☐ 91-110 F

3. CANOPY % cover: ☑ Pine Plantation (Rows) ☐ Managed for Pine ☐ Natural Forest

☐ Absent ☐ 0-1% ☐ 1-5% ☑ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

4. Estimated height class of the majority of **TREES** using the following scale: ☐ absent ☐ 3-5m ☐ 6-10m ☑ >10m

List 3 dominant **TREE** species observed in canopy:

1. Pinus elliottii **2.** **3.**

5. Estimated height class of the majority of **SUBCANOPY** using the following scale: ☑ absent ☐ 3-5m ☐ 6-10m ☐ >10m

List 3 dominant **SUBCANOPY** species observed:

1. **2.** **3.**

6. SHRUBS % cover: ☐ Absent ☐ 0-1% ☐ 1-5% ☑ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

List 3 dominant **SHRUB** species observed:

1. Ilex vomitoria **2.** Ilex glabra **3.** Magnolia virginiana

7. Estimated height class of the majority of **SHRUBS** using the following scale: ☐ absent ☐ 0-.5m ☐ .6-1.5m ☑ 1.6-3m

List 3 of the most common **SHRUB** and/or **TREE** seedlings observed:

1. **2.** **3.**

8. GROUNDCOVER % cover of graminoids (grasses, sedges and rushes):

☐ Absent ☐ 0-1% ☐ 1-5% ☑ 6-25% ☐ 26-50% ☑ 51-75% ☐ 76-100%

9. TOTAL GROUNDCOVER % cover (including graminiods and forbes):

☐ Absent ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☑ 51-75% ☐ 76-100%

List 4 dominant **GROUNDCOVER** species observed:

1. Ilex glabra **2.** Serenoa repens

3. Andropogon virginicus **4.** Vaccinium mysinites

List 3 of the most common **GROUNDCOVER** seedlings observed:

1. **2.** **3.**

List the **WEEDY** or **RUDERAL** species observed:

1. **2.** **3.**

10. Tree density: ☐ appropriate ☑ inappropriate **Why?:** ☑ too dense ☐ too sparse
11. Tree health: ☑ trees healthy ☐ trees stressed **Why?:** ☐ too dense ☐ too wet

12. Hydrologic indicators: ☐ hydric soils ☐ sediment deposition ☐ algal mat/aufwuchs ☐ aquatic bryotphytes ☐ aquatic plants
☐ rafted debris ☐ elevated lichen lines ☐ aquatic fauna ☐ tussocks/hummocks ☐ secondary flow channels
☐ water stained vegetation/ stain lines ☐ morphological plant adaptations/adventitious roots/buttressed trunks/hypertrophied lenticles

13. Water table: ☐ at the surface ☑ below surface **Standing water:** ☐ present ☑ absent
14. Water color: ☐ tannic ☐ non-tannic/clear ☐ cloudy **If cloudy, why?** ☐ suspended sediments ☐ other:
15. Water column: ☐ sphagnum present ☐ utricularia present
16. Altered hydrology: ☐ soil subsidence / oxidation of muck ☐ exposed roots ☐ abnormal tree fall due to soil subsidence
☐ inappropriate vegetation ☐ lichen lines: ☐ typical ☐ abnormal

List inappropriate vegetation:

1. **2.** **3.**

4. **5.** **6.**

17. Wildlife usage and natural history observations: ☐ footprints ☐ scat ☐ herbivory observed ☐ bird nests/calls ☐ fish observed
☐ animal remains ☐ scratch marks ☐ frog calls ☑ arthropods observed ☐ reptiles observed ☐ mammals observed

Notes on wildlife useage observed:

crickets, mosquitos

18. Exotic species: ☐ present ☑ absent

If present **must be georeferenced** and include the following information:

Species: **Location:** **latitude** **longitude**
% cover: ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

Species: **Location:** **latitude** **longitude**
% cover: ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

19. Notes on the general aspect of the site/techniques to meet restoration goals:

Is natural regeneration occuring? ☑ yes ☐ no **and:** ☐ species appropriate ☐ supplemental planting/seeding needed
Site is/has: ☑ fire suppressed ☐ appropriately managed ☐ secondary growth ☐ planted ☐ clear-cut
If planted: ☑ bedded and planted ☐ not bedded but managed for pine **~Tree age:** ☐ 0-5 yrs ☐ 6-10 yrs ☑ 11-20 yrs ☐ 20+ yrs
Recommendations for restoration: ☑ prescribed burn ☐ mechanical treatment **other:**

Specific notes on restoration, observations, or adaptive management techniques:

Continue canopy reduction and prescribed burning as per the mitigation plan.

Site Name: Breakfast Point **Plant community type:** Mesic Pine Flatwoods

Transect ID: BPQT6_P2 **Date and time (am/pm):** 11/2/2006 ☑ AM ☐ PM

1. Weather: ☐ Full Sun ☐ Part Sun ☑ Cloudy ☐ Cloudy and Rain/Fog

2. Temperature: ☐ 20-50 F ☑ 51-70 F ☐ 71-90 F ☐ 91-110 F

3. CANOPY % cover: ☐ Pine Plantation (Rows) ☐ Managed for Pine ☐ Natural Forest

☑ Absent ☐ 0-1% ☐ 1-5% ☑ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

4. Estimated height class of the majority of **TREES** using the following scale: ☑ absent ☐ 3-5m ☐ 6-10m ☑ >10m

List 3 dominant **TREE** species observed in canopy:

1. **2.** **3.**

5. Estimated height class of the majority of **SUBCANOPY** using the following scale: ☑ absent ☐ 3-5m ☐ 6-10m ☐ >10m

List 3 dominant **SUBCANOPY** species observed:

1. **2.** **3.**

6. SHRUBS % cover: ☐ Absent ☐ 0-1% ☐ 1-5% ☑ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

List 3 dominant **SHRUB** species observed:

1. Ilex vomitoria **2.** **3.**

7. Estimated height class of the majority of **SHRUBS** using the following scale: ☐ absent ☐ 0-.5m ☐ .6-1.5m ☑ 1.6-3m

List 3 of the most common **SHRUB** and/or **TREE** seedlings observed:

1. **2.** **3.**

8. GROUNDCOVER % cover of graminoids (grasses, sedges and rushes):

☐ Absent ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☑ 51-75% ☐ 76-100%

9. TOTAL GROUNDCOVER % cover (including graminiods and forbes):

☐ Absent ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☑ 51-75% ☐ 76-100%

List 4 dominant **GROUNDCOVER** species observed:

1. Juncus romarianus **2.** Sagittaria lancifolia

3. Cladium jamaicense **4.**

List 3 of the most common **GROUNDCOVER** seedlings observed:

1. **2.** **3.**

List the **WEEDY** or **RUDERAL** species observed:

1. **2.** **3.**

10. Tree density: ☑ appropriate ☐ inappropriate **Why?:** ☐ too dense ☐ too sparse
11. Tree health: ☐ trees healthy ☐ trees stressed **Why?:** ☐ too dense ☐ too wet

12. Hydrologic indicators:
☑ hydric soils ☐ sediment deposition ☐ algal mat/aufwuchs ☐ aquatic bryotphytes ☐ aquatic plants
☐ rafted debris ☐ elevated lichen lines ☐ aquatic fauna ☑ tussocks/hummocks ☐ secondary flow channels
☑ water stained vegetation/ stain lines ☑ morphological plant adaptations/adventitious roots/buttressed trunks/hypertrophied lenticles

13. Water table: ☑ at the surface ☐ below surface **Standing water:** ☑ present ☐ absent
14. Water color: ☑ tannic ☐ non-tannic/clear ☐ cloudy **If cloudy, why?** ☐ suspended sediments ☐ other:
15. Water column: ☐ sphagnum present ☐ utricularia present
16. Altered hydrology: ☐ soil subsidence / oxidation of muck ☐ exposed roots ☐ abnormal tree fall due to soil subsidence
☐ inappropriate vegetation ☐ lichen lines: ☐ typical ☐ abnormal

List inappropriate vegetation:

1. **2.** **3.**
4. **5.** **6.**

17. Wildlife usage and natural history observations:
☑ footprints ☐ scat ☐ herbivory observed ☐ bird nests/calls ☐ fish observed
☐ animal remains ☐ scratch marks ☐ frog calls ☑ arthropods observed ☐ reptiles observed ☐ mammals observed

Notes on wildlife useage observed:

deer tracks

18. Exotic species: ☐ present ☐ absent

If present **must be georeferenced** and include the following information:

Species: **Location:** **latitude** **longitude**
% cover: ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%
Species: **Location:** **latitude** **longitude**
% cover: ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

19. Notes on the general aspect of the site/techniques to meet restoration goals:
Is natural regeneration occuring? ☐ yes ☐ no **and:** ☑ species appropriate ☐ supplemental planting/seeding needed
Site is/has: ☐ fire suppressed ☑ appropriately managed ☐ secondary growth ☐ planted ☐ clear-cut
If planted: ☐ bedded and planted ☐ not bedded but managed for pine **~Tree age:** ☐ 0-5 yrs ☐ 6-10 yrs ☐ 11-20 yrs ☐ 20+ yrs
Recommendations for restoration: ☐ prescribed burn ☐ mechanical treatment **other:**

Specific notes on restoration, observations, or adaptive management techniques:

Allow fire to burn across marsh as per the mitigation plan.

Site Name: Breakfast Point **Plant community type:** Cypress Flat

Transect ID: BPQT7_P1 **Date and time (am/pm):** 12/22/2004 ☑ AM ☐ PM

1. Weather: ☐ Full Sun ☐ Part Sun ☑ Cloudy ☐ Cloudy and Rain/Fog

2. Temperature: ☐ 20-50 F ☑ 51-70 F ☐ 71-90 F ☐ 91-110 F

3. CANOPY % cover: ☑ Pine Plantation (Rows) ☐ Managed for Pine ☐ Natural Forest

☐ Absent ☐ 0-1% ☐ 1-5% ☐ 6-25% ☑ 26-50% ☐ 51-75% ☐ 76-100%

4. Estimated height class of the majority of **TREES** using the following scale: ☐ absent ☐ 3-5m ☐ 6-10m ☑ >10m

List 3 dominant **TREE** species observed in canopy:

1. Pinus elliottii **2.** **3.**

5. Estimated height class of the majority of **SUBCANOPY** using the following scale: ☐ absent ☐ 3-5m ☑ 6-10m ☐ >10m

List 3 dominant **SUBCANOPY** species observed:

1. Magnolia virginiana **2.** Taxodium ascendens **3.** Ilex cassine

6. SHRUBS % cover: ☐ Absent ☐ 0-1% ☐ 1-5% ☑ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

List 3 dominant **SHRUB** species observed:

1. Myrica cerifera **2.** Nyssa ursina **3.** Illx myrtifolia

7. Estimated height class of the majority of **SHRUBS** using the following scale: ☐ absent ☐ 0-.5m ☐ .6-1.5m ☑ 1.6-3m

List 3 of the most common **SHRUB** and/or **TREE** seedlings observed:

1. **2.** **3.**

8. GROUNDCOVER % cover of graminoids (grasses, sedges and rushes):

☐ Absent ☐ 0-1% ☐ 1-5% ☐ 6-25% ☑ 26-50% ☐ 51-75% ☐ 76-100%

9. TOTAL GROUNDCOVER % cover (including graminiods and forbes):

☐ Absent ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☑ 51-75% ☐ 76-100%

List 4 dominant **GROUNDCOVER** species observed:

1. Juncus romarianus **2.** Pluchea spp

3. Andropogon virginicus **4.** Stillingia aquatica

List 3 of the most common **GROUNDCOVER** seedlings observed:

1. Andropogon virginicus **2.** **3.**

List the **WEEDY** or **RUDERAL** species observed:

1. **2.** **3.**

10. Tree density: ☐ appropriate ☑ inappropriate **Why?:** ☑ too dense ☐ too sparse
11. Tree health: ☐ trees healthy ☑ trees stressed **Why?:** ☐ too dense ☑ too wet

12. Hydrologic indicators:
☑ hydric soils ☐ sediment deposition ☐ algal mat/aufwuchs ☑ aquatic bryotphytes ☑ aquatic plants
☐ rafted debris ☑ elevated lichen lines ☐ aquatic fauna ☑ tussocks/hummocks ☐ secondary flow channels
☑ water stained vegetation/ stain lines ☑ morphological plant adaptations/adventitious roots/buttressed trunks/hypertrophied lenticles

13. Water table: ☑ at the surface ☐ below surface **Standing water:** ☑ present ☐ absent
14. Water color: ☑ tannic ☐ non-tannic/clear ☐ cloudy **If cloudy, why?** ☐ suspended sediments ☐ other:
15. Water column: ☐ sphagnum present ☐ utricularia present
16. Altered hydrology: ☐ soil subsidence / oxidation of muck ☐ exposed roots ☐ abnormal tree fall due to soil subsidence
☐ inappropriate vegetation ☐ lichen lines: ☐ typical ☐ abnormal

List inappropriate vegetation:

1. **2.** **3.**

4. **5.** **6.**

17. Wildlife usage and natural history observations:
☑ footprints ☐ scat ☐ herbivory observed ☐ bird nests/calls ☐ fish observed
☐ animal remains ☐ scratch marks ☐ frog calls ☑ arthropods observed ☐ reptiles observed ☐ mammals observed

Notes on wildlife useage observed:

deer/gator paths, crickets and mosquitos

18. Exotic species: ☐ present ☐ absent

If present **must be georeferenced** and include the following information:

Species: **Location:** **latitude** **longitude**
% cover: ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

Species: **Location:** **latitude** **longitude**
% cover: ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

19. Notes on the general aspect of the site/techniques to meet restoration goals:

Is natural regeneration occuring? ☐ yes ☐ no **and:** ☑ species appropriate ☐ supplemental planting/seeding needed
Site is/has: ☑ fire suppressed ☐ appropriately managed ☐ secondary growth ☐ planted ☐ clear-cut
If planted: ☑ bedded and planted ☐ not bedded but managed for pine **~Tree age:** ☐ 0-5 yrs ☐ 6-10 yrs ☑ 11-20 yrs ☐ 20+ yrs
Recommendations for restoration: ☑ prescribed burn ☐ mechanical treatment **other:**

Specific notes on restoration, observations, or adaptive management techniques:

Continue canopy reduction and prescribed burning as per the mitigation plan.

Site Name: Breakfast Point **Plant community type:** Hydric Pine Flatwoods

Transect ID: PBQT7_P2 **Date and time (am/pm):** 11/2/2006 ☑ AM ☐ PM

1. Weather: ☐ Full Sun ☐ Part Sun ☑ Cloudy ☐ Cloudy and Rain/Fog

2. Temperature: ☐ 20-50 F ☑ 51-70 F ☐ 71-90 F ☐ 91-110 F

3. CANOPY % cover: ☐ Pine Plantation (Rows) ☐ Managed for Pine ☐ Natural Forest

☐ Absent ☐ 0-1% ☐ 1-5% ☐ 6-25% ☑ 26-50% ☐ 51-75% ☐ 76-100%

4. Estimated height class of the majority of **TREES** using the following scale: ☐ absent ☐ 3-5m ☐ 6-10m ☑ >10m

List 3 dominant **TREE** species observed in canopy:

1. Pinus elliottii **2.** **3.**

5. Estimated height class of the majority of **SUBCANOPY** using the following scale: ☐ absent ☐ 3-5m ☑ 6-10m ☐ >10m

List 3 dominant **SUBCANOPY** species observed:

1. Pinus elliottii **2.** Nyssa biflora **3.** Illex cassine

6. SHRUBS % cover: ☐ Absent ☐ 0-1% ☐ 1-5% ☑ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

List 3 dominant **SHRUB** species observed:

1. **2.** **3.**

7. Estimated height class of the majority of **SHRUBS** using the following scale: ☐ absent ☐ 0-.5m ☐ .6-1.5m ☐ 1.6-3m

List 3 of the most common **SHRUB** and/or **TREE** seedlings observed:

1. Magnolia virginiana **2.** Myrica cerifera **3.**

8. GROUNDCOVER % cover of graminoids (grasses, sedges and rushes):

☐ Absent ☐ 0-1% ☐ 1-5% ☐ 6-25% ☑ 26-50% ☐ 51-75% ☐ 76-100%

9. TOTAL GROUNDCOVER % cover (including graminiods and forbes):

☐ Absent ☐ 0-1% ☐ 1-5% ☐ 6-25% ☑ 26-50% ☐ 51-75% ☐ 76-100%

List 4 dominant **GROUNDCOVER** species observed:

1. Rhychospora inundata **2.** Myrica heterophylla

3. Pluchea spp **4.** Aristida stricta

List 3 of the most common **GROUNDCOVER** seedlings observed:

1. **2.** **3.**

List the **WEEDY** or **RUDERAL** species observed:

1. **2.** **3.**

10. Tree density: ☐ appropriate ☑ inappropriate **Why?:** ☑ too dense ☐ too sparse
11. Tree health: ☐ trees healthy ☑ trees stressed **Why?:** ☐ too dense ☑ too wet

12. Hydrologic indicators:
☑ hydric soils ☐ sediment deposition ☐ algal mat/aufwuchs ☐ aquatic bryotphytes ☑ aquatic plants
☐ rafted debris ☑ elevated lichen lines ☐ aquatic fauna ☑ tussocks/hummocks ☐ secondary flow channels
☑ water stained vegetation/ stain lines ☑ morphological plant adaptations/adventitious roots/buttressed trunks/hypertrophied lenticles

13. Water table: ☑ at the surface ☐ below surface **Standing water:** ☑ present ☐ absent
14. Water color: ☑ tannic ☐ non-tannic/clear ☐ cloudy **If cloudy, why?** ☐ suspended sediments ☐ other:
15. Water column: ☐ sphagnum present ☐ utricularia present
16. Altered hydrology: ☐ soil subsidence / oxidation of muck ☐ exposed roots ☐ abnormal tree fall due to soil subsidence
☐ inappropriate vegetation ☐ lichen lines: ☐ typical ☐ abnormal

List inappropriate vegetation:

1. **2.** **3.**
4. **5.** **6.**

17. Wildlife usage and natural history observations:
☑ footprints ☐ scat ☐ herbivory observed ☐ bird nests/calls ☐ fish observed
☐ animal remains ☐ scratch marks ☐ frog calls ☑ arthropods observed ☐ reptiles observed ☐ mammals observed

Notes on wildlife useage observed:

deer tracks and moquitos

18. Exotic species: ☐ present ☑ absent

If present **must be georeferenced** and include the following information:

Species: **Location:** **latitude** **longitude**
% cover: ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%
Species: **Location:** **latitude** **longitude**
% cover: ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

19. Notes on the general aspect of the site/techniques to meet restoration goals:
Is natural regeneration occuring? ☐ yes ☐ no **and:** ☐ species appropriate ☐ supplemental planting/seeding needed
Site is/has: ☑ fire suppressed ☐ appropriately managed ☐ secondary growth ☐ planted ☐ clear-cut
If planted: ☑ bedded and planted ☐ not bedded but managed for pine **~Tree age:** ☐ 0-5 yrs ☐ 6-10 yrs ☐ 11-20 yrs ☐ 20+ yrs
Recommendations for restoration: ☑ prescribed burn ☑ mechanical treatment **other:**

Specific notes on restoration, observations, or adaptive management techniques:

Continue canopy reduction and prescribed burning as per the mitigation plan.

Site Name: Breakfast Point **Plant community type:** Mesic Pine Flatwoods

Transect ID: BPQT7_P3 **Date and time (am/pm):** 12/22/2004 ☑ AM ☐ PM

1. Weather: ☐ Full Sun ☐ Part Sun ☑ Cloudy ☐ Cloudy and Rain/Fog

2. Temperature: ☐ 20-50 F ☑ 51-70 F ☐ 71-90 F ☑ 91-110 F

3. CANOPY % cover: ☑ Pine Plantation (Rows) ☐ Managed for Pine ☐ Natural Forest

☐ Absent ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☑ 76-100%

4. Estimated height class of the majority of **TREES** using the following scale: ☐ absent ☐ 3-5m ☐ 6-10m ☑ >10m

List 3 dominant **TREE** species observed in canopy:

1. Pinus elliottii **2.** **3.**

5. Estimated height class of the majority of **SUBCANOPY** using the following scale: ☐ absent ☐ 3-5m ☐ 6-10m ☑ >10m

List 3 dominant **SUBCANOPY** species observed:

1. **2.** **3.**

6. SHRUBS % cover: ☐ Absent ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☑ 76-100%

List 3 dominant **SHRUB** species observed:

1. Ilex glabra **2.** Ilex vomitoria **3.** Lyonia lucida

7. Estimated height class of the majority of **SHRUBS** using the following scale: ☐ absent ☐ 0-.5m ☐ .6-1.5m ☑ 1.6-3m

List 3 of the most common **SHRUB** and/or **TREE** seedlings observed:

1. **2.** **3.**

8. GROUNDCOVER % cover of graminoids (grasses, sedges and rushes):

☐ Absent ☐ 0-1% ☐ 1-5% ☑ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

9. TOTAL GROUNDCOVER % cover (including graminiods and forbes):

☐ Absent ☐ 0-1% ☐ 1-5% ☐ 6-25% ☑ 26-50% ☐ 51-75% ☐ 76-100%

List 4 dominant **GROUNDCOVER** species observed:

1. Andropogon virginicus **2.** Serenoa repens

3. Rhynchospora fascicularis **4.** Panicum anceps

List 3 of the most common **GROUNDCOVER** seedlings observed:

1. Rhynchospora sp. **2.** Ilex vomitoria **3.** Andropogon virginicus

List the **WEEDY** or **RUDERAL** species observed:

1. Andropogon virginicus **2.** Rhynchospora sp. **3.**

10. Tree density: ☐ appropriate ☑ inappropriate **Why?:** ☑ too dense ☐ too sparse
11. Tree health: ☑ trees healthy ☐ trees stressed **Why?:** ☐ too dense ☐ too wet

12. Hydrologic indicators: ☐ hydric soils ☐ sediment deposition ☐ algal mat/aufwuchs ☐ aquatic bryotphytes ☐ aquatic plants
☐ rafted debris ☐ elevated lichen lines ☐ aquatic fauna ☐ tussocks/hummocks ☐ secondary flow channels
☐ water stained vegetation/ stain lines ☐ morphological plant adaptations/adventitious roots/buttressed trunks/hypertrophied lenticles

13. Water table: ☐ at the surface ☑ below surface **Standing water:** ☐ present ☑ absent
14. Water color: ☐ tannic ☐ non-tannic/clear ☐ cloudy **If cloudy, why?** ☐ suspended sediments ☐ other:
15. Water column: ☐ sphagnum present ☐ utricularia present
16. Altered hydrology: ☐ soil subsidence / oxidation of muck ☐ exposed roots ☐ abnormal tree fall due to soil subsidence
☐ inappropriate vegetation ☐ lichen lines: ☐ typical ☐ abnormal

List inappropriate vegetation:

1. **2.** **3.**

4. **5.** **6.**

17. Wildlife usage and natural history observations: ☐ footprints ☐ scat ☐ herbivory observed ☑ bird nests/calls ☐ fish observed
☐ animal remains ☐ scratch marks ☐ frog calls ☐ arthropods observed ☐ reptiles observed ☐ mammals observed

Notes on wildlife useage observed:

Wintering warbler species, robins, catbird, tree swallows

18. Exotic species: ☐ present ☑ absent

If present **must be georeferenced** and include the following information:

Species: **Location:** **latitude** **longitude**
% cover: ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%
Species: **Location:** **latitude** **longitude**
% cover: ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

19. Notes on the general aspect of the site/techniques to meet restoration goals:
Is natural regeneration occuring? ☐ yes ☑ no **and:** ☐ species appropriate ☐ supplemental planting/seeding needed
Site is/has: ☑ fire suppressed ☐ appropriately managed ☐ secondary growth ☑ planted ☐ clear-cut
If planted: ☑ bedded and planted ☐ not bedded but managed for pine **~Tree age:** ☐ 0-5 yrs ☐ 6-10 yrs ☐ 11-20 yrs ☑ 20+ yrs
Recommendations for restoration: ☑ prescribed burn ☑ mechanical treatment **other:**

Specific notes on restoration, observations, or adaptive management techniques:

Continue canopy reduction and prescribed burning as per the mitigation plan.

Site Name: Breakfast Point **Plant community type:** Freshwater Marsh

Transect ID: BPQT7_P4 **Date and time (am/pm):** 12/22/2004 ☑ AM ☐ PM

1. Weather: ☐ Full Sun ☐ Part Sun ☐ Cloudy ☑ Cloudy and Rain/Fog

2. Temperature: ☐ 20-50 F ☑ 51-70 F ☐ 71-90 F ☐ 91-110 F

3. CANOPY % cover: ☐ Pine Plantation (Rows) ☐ Managed for Pine ☐ Natural Forest

☑ Absent ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

4. Estimated height class of the majority of **TREES** using the following scale: ☑ absent ☐ 3-5m ☐ 6-10m ☐ >10m

List 3 dominant **TREE** species observed in canopy:

1. **2.** **3.**

5. Estimated height class of the majority of **SUBCANOPY** using the following scale: ☑ absent ☐ 3-5m ☐ 6-10m ☐ >10m

List 3 dominant **SUBCANOPY** species observed:

1. **2.** **3.**

6. SHRUBS % cover: ☑ Absent ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

List 3 dominant **SHRUB** species observed:

1. **2.** **3.**

7. Estimated height class of the majority of **SHRUBS** using the following scale: ☑ absent ☐ 0-.5m ☐ .6-1.5m ☐ 1.6-3m

List 3 of the most common **SHRUB** and/or **TREE** seedlings observed:

1. **2.** **3.**

8. GROUNDCOVER % cover of graminoids (grasses, sedges and rushes):

☐ Absent ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☑ 51-75% ☐ 76-100%

9. TOTAL GROUNDCOVER % cover (including graminiods and forbes):

☐ Absent ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☑ 51-75% ☐ 76-100%

List 4 dominant **GROUNDCOVER** species observed:

1. Cladium jamaicense **2.** Spartina patens

3. Juncus roemarianus **4.** Andropogon virginicus

List 3 of the most common **GROUNDCOVER** seedlings observed:

1. **2.** **3.**

List the **WEEDY** or **RUDERAL** species observed:

1. Andropogon virginicus **2.** **3.**

10. Tree density: ☐ appropriate ☐ inappropriate **Why?:** ☐ too dense ☐ too sparse
11. Tree health: ☐ trees healthy ☐ trees stressed **Why?:** ☐ too dense ☐ too wet

12. Hydrologic indicators:
☐ hydric soils ☐ sediment deposition ☑ algal mat/aufwuchs ☐ aquatic bryotphytes ☐ aquatic plants
☐ rafted debris ☐ elevated lichen lines ☐ aquatic fauna ☑ tussocks/hummocks ☐ secondary flow channels
☑ water stained vegetation/ stain lines ☑ morphological plant adaptations/adventitious roots/buttressed trunks/hypertrophied lenticles

13. Water table: ☑ at the surface ☐ below surface **Standing water:** ☑ present ☐ absent
14. Water color: ☑ tannic ☐ non-tannic/clear ☐ cloudy **If cloudy, why?** ☐ suspended sediments ☐ other:
15. Water column: ☐ sphagnum present ☐ utricularia present
16. Altered hydrology: ☐ soil subsidence / oxidation of muck ☐ exposed roots ☐ abnormal tree fall due to soil subsidence
☐ inappropriate vegetation ☐ lichen lines: ☐ typical ☐ abnormal

List inappropriate vegetation:

1. **2.** **3.**
4. **5.** **6.**

17. Wildlife usage and natural history observations:
☐ footprints ☐ scat ☐ herbivory observed ☐ bird nests/calls ☑ fish observed
☐ animal remains ☐ scratch marks ☐ frog calls ☐ arthropods observed ☐ reptiles observed ☐ mammals observed

Notes on wildlife useage observed:

Mosquito fish (Gambusia)

18. Exotic species: ☐ present ☑ absent

If present **must be georeferenced** and include the following information:

Species: **Location:** **latitude** **longitude**
% cover: ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%
Species: **Location:** **latitude** **longitude**
% cover: ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

19. Notes on the general aspect of the site/techniques to meet restoration goals:
Is natural regeneration occuring? ☑ yes ☐ no **and:** ☐ species appropriate ☐ supplemental planting/seeding needed
Site is/has: ☑ fire suppressed ☐ appropriately managed ☐ secondary growth ☐ planted ☐ clear-cut
If planted: ☐ bedded and planted ☐ not bedded but managed for pine **~Tree age:** ☐ 0-5 yrs ☐ 6-10 yrs ☐ 11-20 yrs ☐ 20+ yrs
Recommendations for restoration: ☑ prescribed burn ☐ mechanical treatment **other:**

Specific notes on restoration, observations, or adaptive management techniques:

Site is a marsh with no canopy, allow fire to burn across marsh when surrounding uplands are burned as per the mitigation plan.

Site Name: Breakfast Point **Plant community type:** Mesic Pine Flatwoods

Transect ID: BPQT8_P1 **Date and time (am/pm):** 11/6/2004 ☑ AM ☐ PM

1. Weather: ☐ Full Sun ☐ Part Sun ☑ Cloudy ☐ Cloudy and Rain/Fog

2. Temperature: ☐ 20-50 F ☑ 51-70 F ☐ 71-90 F ☐ 91-110 F

3. CANOPY % cover: ☑ Pine Plantation (Rows) ☐ Managed for Pine ☐ Natural Forest

☐ Absent ☐ 0-1% ☐ 1-5% ☐ 6-25% ☑ 26-50% ☐ 51-75% ☐ 76-100%

4. Estimated height class of the majority of **TREES** using the following scale: ☐ absent ☐ 3-5m ☐ 6-10m ☑ >10m

List 3 dominant **TREE** species observed in canopy:

1. Pinus elliottii **2.** **3.**

5. Estimated height class of the majority of **SUBCANOPY** using the following scale: ☐ absent ☐ 3-5m ☑ 6-10m ☐ >10m

List 3 dominant **SUBCANOPY** species observed:

1. Pinus elliottii **2.** **3.**

6. SHRUBS % cover: ☑ Absent ☐ 0-1% ☑ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

List 3 dominant **SHRUB** species observed:

1. Ilex vomitoria **2.** **3.**

7. Estimated height class of the majority of **SHRUBS** using the following scale: ☐ absent ☐ 0-.5m ☐ .6-1.5m ☑ 1.6-3m

List 3 of the most common **SHRUB** and/or **TREE** seedlings observed:

1. **2.** **3.**

8. GROUNDCOVER % cover of graminoids (grasses, sedges and rushes):

☐ Absent ☐ 0-1% ☐ 1-5% ☐ 6-25% ☑ 26-50% ☐ 51-75% ☐ 76-100%

9. TOTAL GROUNDCOVER % cover (including graminiods and forbes):

☑ Absent ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☑ 51-75% ☐ 76-100%

List 4 dominant **GROUNDCOVER** species observed:

1. Rhus coppalina **2.** Pteridium aqualinum

3. Ilex glabra **4.** Vaccinium myrsinites

List 3 of the most common **GROUNDCOVER** seedlings observed:

1. **2.** **3.**

List the **WEEDY** or **RUDERAL** species observed:

1. **2.** **3.**

10. Tree density: ☐ appropriate ☑ inappropriate **Why?:** ☑ too dense ☐ too sparse
11. Tree health: ☑ trees healthy ☐ trees stressed **Why?:** ☐ too dense ☐ too wet

12. Hydrologic indicators: ☐ hydric soils ☐ sediment deposition ☐ algal mat/aufwuchs ☐ aquatic bryotphytes ☐ aquatic plants
☐ rafted debris ☐ elevated lichen lines ☐ aquatic fauna ☐ tussocks/hummocks ☐ secondary flow channels
☐ water stained vegetation/ stain lines ☐ morphological plant adaptations/adventitious roots/buttressed trunks/hypertrophied lenticles

13. Water table: ☐ at the surface ☑ below surface **Standing water:** ☐ present ☑ absent
14. Water color: ☐ tannic ☐ non-tannic/clear ☐ cloudy **If cloudy, why?** ☐ suspended sediments ☐ other:
15. Water column: ☐ sphagnum present ☐ utricularia present
16. Altered hydrology: ☐ soil subsidence / oxidation of muck ☐ exposed roots ☐ abnormal tree fall due to soil subsidence
☐ inappropriate vegetation ☐ lichen lines: ☐ typical ☐ abnormal

List inappropriate vegetation:

1. **2.** **3.**

4. **5.** **6.**

17. Wildlife usage and natural history observations: ☐ footprints ☐ scat ☐ herbivory observed ☐ bird nests/calls ☐ fish observed
☐ animal remains ☐ scratch marks ☑ frog calls ☐ arthropods observed ☐ reptiles observed ☐ mammals observed

Notes on wildlife useage observed:

frog calls heard, sand gnats, mosquitos

18. Exotic species: ☐ present ☑ absent

If present **must be georeferenced** and include the following information:

Species: **Location:** **latitude** **longitude**
% cover: ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

Species: **Location:** **latitude** **longitude**
% cover: ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

19. Notes on the general aspect of the site/techniques to meet restoration goals:

Is natural regeneration occuring? ☐ yes ☑ no **and:** ☑ species appropriate ☐ supplemental planting/seeding needed
Site is/has: ☑ fire suppressed ☐ appropriately managed ☐ secondary growth ☑ planted ☐ clear-cut
If planted: ☑ bedded and planted ☐ not bedded but managed for pine **~Tree age:** ☐ 0-5 yrs ☐ 6-10 yrs ☐ 11-20 yrs ☐ 20+ yrs
Recommendations for restoration: ☑ prescribed burn ☐ mechanical treatment **other:**

Specific notes on restoration, observations, or adaptive management techniques:

Continue canopy reduction and prescribed burning as per the mitigation plan.

Site Name: Breakfast Point **Plant community type:** Freshwater Marsh

Transect ID: BPQT8_P2 **Date and time (am/pm):** 12/21/2004 ☑ AM ☐ PM

1. Weather: ☐ Full Sun ☐ Part Sun ☑ Cloudy ☐ Cloudy and Rain/Fog

2. Temperature: ☐ 20-50 F ☐ 51-70 F ☑ 71-90 F ☐ 91-110 F

3. CANOPY % cover: ☐ Pine Plantation (Rows) ☐ Managed for Pine ☐ Natural Forest

☑ Absent ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

4. Estimated height class of the majority of **TREES** using the following scale: ☐ absent ☐ 3-5m ☐ 6-10m ☐ >10m

List 3 dominant **TREE** species observed in canopy:

1. **2.** **3.**

5. Estimated height class of the majority of **SUBCANOPY** using the following scale: ☑ absent ☐ 3-5m ☐ 6-10m ☐ >10m

List 3 dominant **SUBCANOPY** species observed:

1. **2.** **3.**

6. SHRUBS % cover: ☑ Absent ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

List 3 dominant **SHRUB** species observed:

1. **2.** **3.**

7. Estimated height class of the majority of **SHRUBS** using the following scale: ☑ absent ☐ 0-.5m ☐ .6-1.5m ☐ 1.6-3m

List 3 of the most common **SHRUB** and/or **TREE** seedlings observed:

1. **2.** **3.**

8. GROUNDCOVER % cover of graminoids (grasses, sedges and rushes):

☐ Absent ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☑ 51-75% ☐ 76-100%

9. TOTAL GROUNDCOVER % cover (including graminiods and forbes):

☐ Absent ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☑ 51-75% ☐ 76-100%

List 4 dominant **GROUNDCOVER** species observed:

1. Juncus romarianus **2.** Spartina patens

3. Eleocharis sp **4.**

List 3 of the most common **GROUNDCOVER** seedlings observed:

1. Ludwigia pilosa **2.** **3.**

List the **WEEDY** or **RUDERAL** species observed:

1. Ludwigia pilosa **2.** **3.**

10. Tree density: ☑ appropriate ☐ inappropriate **Why?:** ☐ too dense ☐ too sparse
11. Tree health: ☐ trees healthy ☐ trees stressed **Why?:** ☐ too dense ☐ too wet

12. Hydrologic indicators:
☑ hydric soils ☐ sediment deposition ☐ algal mat/aufwuchs ☐ aquatic bryotphytes ☑ aquatic plants
☐ rafted debris ☐ elevated lichen lines ☐ aquatic fauna ☑ tussocks/hummocks ☐ secondary flow channels
☑ water stained vegetation/ stain lines ☑ morphological plant adaptations/adventitious roots/buttressed trunks/hypertrophied lenticles

13. Water table: ☑ at the surface ☐ below surface **Standing water:** ☑ present ☐ absent
14. Water color: ☑ tannic ☐ non-tannic/clear ☐ cloudy **If cloudy, why?** ☐ suspended sediments ☐ other:
15. Water column: ☐ sphagnum present ☐ utricularia present
16. Altered hydrology: ☐ soil subsidence / oxidation of muck ☐ exposed roots ☐ abnormal tree fall due to soil subsidence
☐ inappropriate vegetation ☐ lichen lines: ☐ typical ☐ abnormal

List inappropriate vegetation:

1. **2.** **3.**

4. **5.** **6.**

17. Wildlife usage and natural history observations: ☐ footprints ☐ scat ☐ herbivory observed ☐ bird nests/calls ☐ fish observed
☐ animal remains ☐ scratch marks ☐ frog calls ☐ arthropods observed ☐ reptiles observed ☐ mammals observed

Notes on wildlife useage observed:

18. Exotic species: ☐ present ☑ absent

If present **must be georeferenced** and include the following information:

Species: **Location:** **latitude** **longitude**
% cover: ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

Species: **Location:** **latitude** **longitude**
% cover: ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

19. Notes on the general aspect of the site/techniques to meet restoration goals:
Is natural regeneration occuring? ☐ yes ☐ no **and:** ☑ species appropriate ☐ supplemental planting/seeding needed
Site is/has: ☑ fire suppressed ☐ appropriately managed ☐ secondary growth ☐ planted ☐ clear-cut
If planted: ☐ bedded and planted ☐ not bedded but managed for pine **~Tree age:** ☐ 0-5 yrs ☐ 6-10 yrs ☐ 11-20 yrs ☐ 20+ yrs
Recommendations for restoration: ☐ prescribed burn ☐ mechanical treatment **other:**

Specific notes on restoration, observations, or adaptive management techniques:

Allow prescribed fire to burn across marsh as per the mitigation plan.

Site Name: Breakfast Point **Plant community type:** Freshwater Marsh

Transect ID: BPQT9_T1 **Date and time (am/pm):** 11/7/2006 ☑ AM ☐ PM

1. Weather: ☐ Full Sun ☐ Part Sun ☑ Cloudy ☐ Cloudy and Rain/Fog

2. Temperature: ☐ 20-50 F ☑ 51-70 F ☐ 71-90 F ☐ 91-110 F

3. CANOPY % cover: ☑ Pine Plantation (Rows) ☐ Managed for Pine ☐ Natural Forest

☐ Absent ☐ 0-1% ☐ 1-5% ☑ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

4. Estimated height class of the majority of **TREES** using the following scale: ☐ absent ☑ 3-5m ☐ 6-10m ☐ >10m

List 3 dominant **TREE** species observed in canopy:

1. Pinus elliottii **2.** **3.**

5. Estimated height class of the majority of **SUBCANOPY** using the following scale: ☐ absent ☑ 3-5m ☐ 6-10m ☐ >10m

List 3 dominant **SUBCANOPY** species observed:

1. Ilex vomitoria **2.** Myrica cerifera **3.** Nyssa ursina

6. SHRUBS % cover: ☐ Absent ☐ 0-1% ☑ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

List 3 dominant **SHRUB** species observed:

1. Ilex glabra **2.** **3.**

7. Estimated height class of the majority of **SHRUBS** using the following scale: ☐ absent ☐ 0-.5m ☑ .6-1.5m ☐ 1.6-3m

List 3 of the most common **SHRUB** and/or **TREE** seedlings observed:

1. **2.** **3.**

8. GROUNDCOVER % cover of graminoids (grasses, sedges and rushes):

☐ Absent ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☑ 76-100%

9. TOTAL GROUNDCOVER % cover (including graminiods and forbes):

☐ Absent ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☑ 76-100%

List 4 dominant **GROUNDCOVER** species observed:

1. Panicum vergatan **2.** Sagittaria lancifolia

3. Styllingia aqualica **4.** Anthaenanthia rufa

List 3 of the most common **GROUNDCOVER** seedlings observed:

1. **2.** **3.**

List the **WEEDY** or **RUDERAL** species observed:

1. **2.** **3.**

10. Tree density: ☐ appropriate ☑ inappropriate **Why?:** ☑ too dense ☐ too sparse
11. Tree health: ☐ trees healthy ☑ trees stressed **Why?:** ☐ too dense ☑ too wet

12. Hydrologic indicators: ☑ hydric soils ☐ sediment deposition ☐ algal mat/aufwuchs ☐ aquatic bryotphytes ☐ aquatic plants
☐ rafted debris ☑ elevated lichen lines ☐ aquatic fauna ☑ tussocks/hummocks ☐ secondary flow channels
☑ water stained vegetation/ stain lines ☑ morphological plant adaptations/adventitious roots/buttressed trunks/hypertrophied lenticles

13. Water table: ☑ at the surface ☐ below surface **Standing water:** ☑ present ☐ absent
14. Water color: ☑ tannic ☐ non-tannic/clear ☐ cloudy **If cloudy, why?** ☐ suspended sediments ☐ other:
15. Water column: ☐ sphagnum present ☐ utricularia present
16. Altered hydrology: ☐ soil subsidence / oxidation of muck ☐ exposed roots ☐ abnormal tree fall due to soil subsidence
☐ inappropriate vegetation ☐ lichen lines: ☐ typical ☐ abnormal

List inappropriate vegetation:

1. **2.** **3.**

4. **5.** **6.**

17. Wildlife usage and natural history observations: ☐ footprints ☐ scat ☐ herbivory observed ☑ bird nests/calls ☐ fish observed
☐ animal remains ☐ scratch marks ☐ frog calls ☑ arthropods observed ☐ reptiles observed ☐ mammals observed

Notes on wildlife useage observed:

small birds, mosquitos

18. Exotic species: ☐ present ☑ absent

If present **must be georeferenced** and include the following information:

Species: Feral pig (Sus scrofa) **Location:** **latitude** **longitude**
% cover: ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

Species: **Location:** **latitude** **longitude**
% cover: ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

19. Notes on the general aspect of the site/techniques to meet restoration goals:

Is natural regeneration occuring? ☑ yes ☐ no **and:** ☑ species appropriate ☐ supplemental planting/seeding needed
Site is/has: ☑ fire suppressed ☐ appropriately managed ☐ secondary growth ☑ planted ☐ clear-cut
If planted: ☑ bedded and planted ☐ not bedded but managed for pine **~Tree age:** ☐ 0-5 yrs ☐ 6-10 yrs ☑ 11-20 yrs ☐ 20+ yrs
Recommendations for restoration: ☑ prescribed burn ☑ mechanical treatment **other:**

Specific notes on restoration, observations, or adaptive management techniques:

after heavy rain, inundated

Site Name: Breakfast Point **Plant community type:** Hydric Pine Flatwoods

Transect ID: BPQT9_P2 **Date and time (am/pm):** 11/7/2004 ☑ AM ☐ PM

1. Weather: ☐ Full Sun ☐ Part Sun ☐ Cloudy ☑ Cloudy and Rain/Fog

2. Temperature: ☐ 20-50 F ☑ 51-70 F ☐ 71-90 F ☐ 91-110 F

3. CANOPY % cover: ☑ Pine Plantation (Rows) ☐ Managed for Pine ☐ Natural Forest

☐ Absent ☐ 0-1% ☐ 1-5% ☐ 6-25% ☑ 26-50% ☐ 51-75% ☐ 76-100%

4. Estimated height class of the majority of **TREES** using the following scale: ☐ absent ☐ 3-5m ☑ 6-10m ☐ >10m

List 3 dominant **TREE** species observed in canopy:

1. Pinus elliottii **2.** **3.**

5. Estimated height class of the majority of **SUBCANOPY** using the following scale: ☐ absent ☑ 3-5m ☐ 6-10m ☐ >10m

List 3 dominant **SUBCANOPY** species observed:

1. Pinus elliottii **2.** Ilex cassine **3.** Myrica cerifera

6. SHRUBS % cover: ☐ Absent ☐ 0-1% ☐ 1-5% ☑ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

List 3 dominant **SHRUB** species observed:

1. Ilex glabra **2.** Nyssa ursina **3.** Myrica cerifera

7. Estimated height class of the majority of **SHRUBS** using the following scale: ☐ absent ☐ 0-.5m ☑ .6-1.5m ☐ 1.6-3m

List 3 of the most common **SHRUB** and/or **TREE** seedlings observed:

1. **2.** **3.**

8. GROUNDCOVER % cover of graminoids (grasses, sedges and rushes):

☐ Absent ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☑ 51-75% ☐ 76-100%

9. TOTAL GROUNDCOVER % cover (including graminiods and forbes):

☐ Absent ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☑ 51-75% ☐ 76-100%

List 4 dominant **GROUNDCOVER** species observed:

1. Andropogon glomeratus **2.** Pteridium aqualinum

3. Aristida stricta **4.** Ilex glabra

List 3 of the most common **GROUNDCOVER** seedlings observed:

1. **2.** **3.**

List the **WEEDY** or **RUDERAL** species observed:

1. **2.** **3.**

10. Tree density: ☐ appropriate ☑ inappropriate **Why?:** ☑ too dense ☐ too sparse
11. Tree health: ☐ trees healthy ☑ trees stressed **Why?:** ☐ too dense ☑ too wet

12. Hydrologic indicators: ☑ hydric soils ☐ sediment deposition ☐ algal mat/aufwuchs ☐ aquatic bryotphytes ☐ aquatic plants
☐ rafted debris ☑ elevated lichen lines ☑ aquatic fauna ☑ tussocks/hummocks ☐ secondary flow channels
☑ water stained vegetation/ stain lines ☑ morphological plant adaptations/adventitious roots/buttressed trunks/hypertrophied lenticles

13. Water table: ☑ at the surface ☐ below surface **Standing water:** ☑ present ☐ absent
14. Water color: ☑ tannic ☐ non-tannic/clear ☐ cloudy **If cloudy, why?** ☐ suspended sediments ☐ other:
15. Water column: ☐ sphagnum present ☐ utricularia present
16. Altered hydrology: ☐ soil subsidence / oxidation of muck ☐ exposed roots ☐ abnormal tree fall due to soil subsidence
☐ inappropriate vegetation ☐ lichen lines: ☐ typical ☐ abnormal

List inappropriate vegetation:

1. **2.** **3.**

4. **5.** **6.**

17. Wildlife usage and natural history observations: ☐ footprints ☐ scat ☐ herbivory observed ☑ bird nests/calls ☐ fish observed
☐ animal remains ☐ scratch marks ☐ frog calls ☑ arthropods observed ☐ reptiles observed ☐ mammals observed

Notes on wildlife useage observed:

perigrine falcon and mosquitos

18. Exotic species: ☐ present ☑ absent

If present **must be georeferenced** and include the following information:

Species: **Location:** **latitude** **longitude**
% cover: ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%
Species: **Location:** **latitude** **longitude**
% cover: ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

19. Notes on the general aspect of the site/techniques to meet restoration goals:
Is natural regeneration occuring? ☐ yes ☐ no **and:** ☐ species appropriate ☐ supplemental planting/seeding needed
Site is/has: ☑ fire suppressed ☐ appropriately managed ☐ secondary growth ☐ planted ☐ clear-cut
If planted: ☐ bedded and planted ☐ not bedded but managed for pine **~Tree age:** ☐ 0-5 yrs ☐ 6-10 yrs ☐ 11-20 yrs ☐ 20+ yrs
Recommendations for restoration: ☐ prescribed burn ☐ mechanical treatment **other:**

Specific notes on restoration, observations, or adaptive management techniques:

Continue canopy reduction and prescribed burning as per the mitigation plan.

Site Name: Breakfast Point **Plant community type:** Hydric Pine Flatwoods

Transect ID: BPQT10_P1 **Date and time (am/pm):** 10/30/2006 ☑ AM ☐ PM

1. Weather: ☑ Full Sun ☐ Part Sun ☐ Cloudy ☐ Cloudy and Rain/Fog

2. Temperature: ☐ 20-50 F ☐ 51-70 F ☑ 71-90 F ☐ 91-110 F

3. CANOPY % cover: ☐ Pine Plantation (Rows) ☐ Managed for Pine ☐ Natural Forest

☐ Absent ☐ 0-1% ☑ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

4. Estimated height class of the majority of **TREES** using the following scale: ☐ absent ☐ 3-5m ☑ 6-10m ☐ >10m

List 3 dominant **TREE** species observed in canopy:

1. Pinus elliottii **2.** **3.**

5. Estimated height class of the majority of **SUBCANOPY** using the following scale: ☐ absent ☑ 3-5m ☐ 6-10m ☐ >10m

List 3 dominant **SUBCANOPY** species observed:

1. Pinus elliottii **2.** **3.**

6. SHRUBS % cover: ☐ Absent ☐ 0-1% ☑ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

List 3 dominant **SHRUB** species observed:

1. Nyssa ursina **2.** Clethra alnifolia **3.** Myrica cerifera

7. Estimated height class of the majority of **SHRUBS** using the following scale: ☐ absent ☐ 0-.5m ☑ .6-1.5m ☐ 1.6-3m

List 3 of the most common **SHRUB** and/or **TREE** seedlings observed:

1. **2.** **3.**

8. GROUNDCOVER % cover of graminoids (grasses, sedges and rushes):

☐ Absent ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☑ 51-75% ☐ 76-100%

9. TOTAL GROUNDCOVER % cover (including graminiods and forbes):

☐ Absent ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☑ 76-100%

List 4 dominant **GROUNDCOVER** species observed:

1. Pluchea spp **2.** Stillingia aquatica

3. Sagitaria lancifolia **4.** Andropogon glomeratus

List 3 of the most common **GROUNDCOVER** seedlings observed:

1. **2.** **3.**

List the **WEEDY** or **RUDERAL** species observed:

1. **2.** **3.**

10. Tree density: ☑ appropriate ☐ inappropriate **Why?:** ☐ too dense ☐ too sparse
11. Tree health: ☑ trees healthy ☐ trees stressed **Why?:** ☐ too dense ☐ too wet

12. Hydrologic indicators:
☑ hydric soils ☐ sediment deposition ☐ algal mat/aufwuchs ☐ aquatic bryotphytes ☑ aquatic plants
☐ rafted debris ☐ elevated lichen lines ☐ aquatic fauna ☑ tussocks/hummocks ☐ secondary flow channels
☑ water stained vegetation/ stain lines ☑ morphological plant adaptations/adventitious roots/buttressed trunks/hypertrophied lenticles

13. Water table: ☑ at the surface ☐ below surface **Standing water:** ☑ present ☐ absent
14. Water color: ☑ tannic ☐ non-tannic/clear ☐ cloudy **If cloudy, why?** ☐ suspended sediments ☐ other:
15. Water column: ☐ sphagnum present ☐ utricularia present
16. Altered hydrology: ☐ soil subsidence / oxidation of muck ☑ exposed roots ☐ abnormal tree fall due to soil subsidence
☐ inappropriate vegetation ☐ lichen lines: ☐ typical ☐ abnormal

List inappropriate vegetation:

1. **2.** **3.**

4. **5.** **6.**

17. Wildlife usage and natural history observations:
☑ footprints ☐ scat ☐ herbivory observed ☐ bird nests/calls ☐ fish observed
☐ animal remains ☐ scratch marks ☐ frog calls ☐ arthropods observed ☐ reptiles observed ☑ mammals observed

Notes on wildlife useage observed:

Deer/Bobcat tracks, red-shouldered Hawk observed

18. Exotic species: ☑ present ☐ absent

If present **must be georeferenced** and include the following information:

Species: Sapium sebiferum **Location:** SAP-BPQT10-1 **latitude** **longitude**
% cover: ☑ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

Species: **Location:** **latitude** **longitude**
% cover: ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

19. Notes on the general aspect of the site/techniques to meet restoration goals:

Is natural regeneration occuring? ☑ yes ☐ no **and:** ☐ species appropriate ☐ supplemental planting/seeding needed
Site is/has: ☑ fire suppressed ☐ appropriately managed ☐ secondary growth ☐ planted ☐ clear-cut
If planted: ☑ bedded and planted ☐ not bedded but managed for pine **~Tree age:** ☐ 0-5 yrs ☐ 6-10 yrs ☑ 11-20 yrs ☐ 20+ yrs
Recommendations for restoration: ☑ prescribed burn ☐ mechanical treatment **other:**

Specific notes on restoration, observations, or adaptive management techniques:

Continue prescribed burning as per the mitigation plan.

Site Name: Breakfast Point **Plant community type:** Hydric Pine Flatwoods

Transect ID: BPQT10_P2 **Date and time (am/pm):** 10/31/2004 ☑ AM ☐ PM

1. Weather: ☐ Full Sun ☑ Part Sun ☐ Cloudy ☐ Cloudy and Rain/Fog

2. Temperature: ☐ 20-50 F ☐ 51-70 F ☑ 71-90 F ☐ 91-110 F

3. CANOPY % cover: ☑ Pine Plantation (Rows) ☐ Managed for Pine ☐ Natural Forest

☐ Absent ☐ 0-1% ☐ 1-5% ☑ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

4. Estimated height class of the majority of **TREES** using the following scale: ☐ absent ☐ 3-5m ☑ 6-10m ☐ >10m

List 3 dominant **TREE** species observed in canopy:

1. Pinus elliottii **2.** **3.**

5. Estimated height class of the majority of **SUBCANOPY** using the following scale: ☑ absent ☐ 3-5m ☐ 6-10m ☐ >10m

List 3 dominant **SUBCANOPY** species observed:

1. **2.** **3.**

6. SHRUBS % cover: ☐ Absent ☐ 0-1% ☑ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

List 3 dominant **SHRUB** species observed:

1. Ilex vomitoria **2.** Myrica cerifera **3.** Nyssa ursina

7. Estimated height class of the majority of **SHRUBS** using the following scale: ☐ absent ☐ 0-.5m ☐ .6-1.5m ☑ 1.6-3m

List 3 of the most common **SHRUB** and/or **TREE** seedlings observed:

1. **2.** **3.**

8. GROUNDCOVER % cover of graminoids (grasses, sedges and rushes):

☐ Absent ☐ 0-1% ☐ 1-5% ☐ 6-25% ☑ 26-50% ☐ 51-75% ☐ 76-100%

9. TOTAL GROUNDCOVER % cover (including graminiods and forbes):

☐ Absent ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☑ 51-75% ☐ 76-100%

List 4 dominant **GROUNDCOVER** species observed:

1. Cliftonia monophylla **2.** Sagittaria lancifolia

3. Juncus romarianis **4.** Pluchea spp

List 3 of the most common **GROUNDCOVER** seedlings observed:

1. Callicarpa americana **2.** **3.**

List the **WEEDY** or **RUDERAL** species observed:

1. Myrica cerifera **2.** **3.**

10. Tree density: ☐ appropriate ☑ inappropriate **Why?:** ☑ too dense ☐ too sparse
11. Tree health: ☐ trees healthy ☑ trees stressed **Why?:** ☐ too dense ☑ too wet

12. Hydrologic indicators: ☐ hydric soils ☐ sediment deposition ☐ algal mat/aufwuchs ☐ aquatic bryotphytes ☑ aquatic plants ☑ rafted debris ☐ elevated lichen lines ☐ aquatic fauna ☑ tussocks/hummocks ☐ secondary flow channels ☑ water stained vegetation/ stain lines ☑ morphological plant adaptations/adventitious roots/buttressed trunks/hypertrophied lenticles

13. Water table: ☑ at the surface ☐ below surface **Standing water:** ☑ present ☐ absent
14. Water color: ☑ tannic ☐ non-tannic/clear ☐ cloudy **If cloudy, why?** ☐ suspended sediments ☐ other:
15. Water column: ☐ sphagnum present ☑ utricularia present
16. Altered hydrology: ☐ soil subsidence / oxidation of muck ☑ exposed roots ☐ abnormal tree fall due to soil subsidence ☐ inappropriate vegetation ☐ lichen lines: ☐ typical ☐ abnormal

List inappropriate vegetation:

1. **2.** **3.**

4. **5.** **6.**

17. Wildlife usage and natural history observations: ☐ footprints ☐ scat ☑ herbivory observed ☑ bird nests/calls ☑ fish observed ☐ animal remains ☐ scratch marks ☐ frog calls ☑ arthropods observed ☐ reptiles observed ☐ mammals observed

Notes on wildlife useage observed:

deer, crawfish burrows, monarch butterfly, mosquitos, small minnows

18. Exotic species: ☐ present ☑ absent

If present **must be georeferenced** and include the following information:

Species: **Location:** **latitude** **longitude**
% cover: ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%
Species: **Location:** **latitude** **longitude**
% cover: ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

19. Notes on the general aspect of the site/techniques to meet restoration goals:

Is natural regeneration occuring? ☐ yes ☑ no **and:** ☐ species appropriate ☐ supplemental planting/seeding needed
Site is/has: ☑ fire suppressed ☐ appropriately managed ☐ secondary growth ☐ planted ☐ clear-cut
If planted: ☑ bedded and planted ☐ not bedded but managed for pine **~Tree age:** ☐ 0-5 yrs ☐ 6-10 yrs ☑ 11-20 yrs ☐ 20+ yrs
Recommendations for restoration: ☐ prescribed burn ☑ mechanical treatment **other:**

Specific notes on restoration, observations, or adaptive management techniques:

Continue canopy reduction and prescribed burning as per the mitigation plan.

Site Name: Breakfast Point **Plant community type:** Mesic Pine Flatwoods

Transect ID: BPQT10_P3 **Date and time (am/pm):** 10/31/2004 ☑ AM ☐ PM

1. Weather: ☐ Full Sun ☑ Part Sun ☐ Cloudy ☐ Cloudy and Rain/Fog

2. Temperature: ☐ 20-50 F ☐ 51-70 F ☑ 71-90 F ☐ 91-110 F

3. CANOPY % cover: ☑ Pine Plantation (Rows) ☐ Managed for Pine ☐ Natural Forest

☐ Absent ☐ 0-1% ☐ 1-5% ☑ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

4. Estimated height class of the majority of **TREES** using the following scale: ☐ absent ☐ 3-5m ☑ 6-10m ☐ >10m

List 3 dominant **TREE** species observed in canopy:

1. Pinus elliottii **2.** **3.**

5. Estimated height class of the majority of **SUBCANOPY** using the following scale: ☐ absent ☑ 3-5m ☐ 6-10m ☐ >10m

List 3 dominant **SUBCANOPY** species observed:

1. Pinus elliottii **2.** **3.**

6. SHRUBS % cover: ☐ Absent ☑ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☑ 51-75% ☐ 76-100%

List 3 dominant **SHRUB** species observed:

1. **2.** **3.**

7. Estimated height class of the majority of **SHRUBS** using the following scale: ☐ absent ☑ 0-.5m ☐ .6-1.5m ☐ 1.6-3m

List 3 of the most common **SHRUB** and/or **TREE** seedlings observed:

1. Cliftonia monophylla **2.** **3.**

8. GROUNDCOVER % cover of graminoids (grasses, sedges and rushes):

☐ Absent ☐ 0-1% ☑ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

9. TOTAL GROUNDCOVER % cover (including graminiods and forbes):

☐ Absent ☐ 0-1% ☐ 1-5% ☑ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

List 4 dominant **GROUNDCOVER** species observed:

1. Ilex glabra **2.** Serenoa repens

3. Quercus minima **4.** Cliftonia monophylla

List 3 of the most common **GROUNDCOVER** seedlings observed:

1. **2.** **3.**

List the **WEEDY** or **RUDERAL** species observed:

1. **2.** **3.**

10. Tree density: ☐ appropriate ☑ inappropriate **Why?:** ☑ too dense ☐ too sparse
11. Tree health: ☐ trees healthy ☑ trees stressed **Why?:** ☐ too dense ☐ too wet

12. Hydrologic indicators:
☐ hydric soils ☐ sediment deposition ☐ algal mat/aufwuchs ☐ aquatic bryotphytes ☐ aquatic plants
☐ rafted debris ☐ elevated lichen lines ☐ aquatic fauna ☑ tussocks/hummocks ☐ secondary flow channels
☐ water stained vegetation/ stain lines ☐ morphological plant adaptations/adventitious roots/buttressed trunks/hypertrophied lenticles

13. Water table: ☐ at the surface ☐ below surface **Standing water:** ☐ present ☑ absent
14. Water color: ☐ tannic ☐ non-tannic/clear ☐ cloudy **If cloudy, why?** ☐ suspended sediments ☐ other:
15. Water column: ☐ sphagnum present ☐ utricularia present
16. Altered hydrology: ☐ soil subsidence / oxidation of muck ☐ exposed roots ☐ abnormal tree fall due to soil subsidence
☐ inappropriate vegetation ☐ lichen lines: ☐ typical ☐ abnormal

List inappropriate vegetation:

1. **2.** **3.**

4. **5.** **6.**

17. Wildlife usage and natural history observations: ☐ footprints ☐ scat ☐ herbivory observed ☐ bird nests/calls ☐ fish observed
☐ animal remains ☐ scratch marks ☐ frog calls ☐ arthropods observed ☐ reptiles observed ☐ mammals observed

Notes on wildlife useage observed:

mosquitos

18. Exotic species: ☐ present ☑ absent

If present **must be georeferenced** and include the following information:

Species: **Location:** **latitude** **longitude**
% cover: ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

Species: **Location:** **latitude** **longitude**
% cover: ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

19. Notes on the general aspect of the site/techniques to meet restoration goals:

Is natural regeneration occuring? ☑ yes ☐ no **and:** ☐ species appropriate ☐ supplemental planting/seeding needed
Site is/has: ☑ fire suppressed ☑ appropriately managed ☐ secondary growth ☑ planted ☐ clear-cut
If planted: ☑ bedded and planted ☐ not bedded but managed for pine **~Tree age:** ☐ 0-5 yrs ☐ 6-10 yrs ☑ 11-20 yrs ☐ 20+ yrs
Recommendations for restoration: ☐ prescribed burn ☑ mechanical treatment **other:**

Specific notes on restoration, observations, or adaptive management techniques:

Continue canopy reduction and prescribed burning as per the mitigation plan.

Site Name: Breakfast Point **Plant community type:** Cypress Flat

Transect ID: BPQT10_P4 **Date and time (am/pm):** 10/31/2006 ☐ AM ☑ PM

1. Weather: ☐ Full Sun ☑ Part Sun ☐ Cloudy ☐ Cloudy and Rain/Fog

2. Temperature: ☐ 20-50 F ☐ 51-70 F ☑ 71-90 F ☐ 91-110 F

3. CANOPY % cover: ☑ Pine Plantation (Rows) ☐ Managed for Pine ☐ Natural Forest

☐ Absent ☐ 0-1% ☐ 1-5% ☑ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

4. Estimated height class of the majority of **TREES** using the following scale: ☐ absent ☐ 3-5m ☑ 6-10m ☐ >10m

List 3 dominant **TREE** species observed in canopy:

1. Taxodium ascendens **2.** Pinus elliottii **3.**

5. Estimated height class of the majority of **SUBCANOPY** using the following scale: ☐ absent ☐ 3-5m ☑ 6-10m ☐ >10m

List 3 dominant **SUBCANOPY** species observed:

1. Taxodium ascendens **2.** Pinus elliottii **3.**

6. SHRUBS % cover: ☐ Absent ☐ 0-1% ☐ 1-5% ☑ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

List 3 dominant **SHRUB** species observed:

1. Serenoa repens **2.** Ilex vomitoria **3.** Myrica cerifera

7. Estimated height class of the majority of **SHRUBS** using the following scale: ☐ absent ☐ 0-.5m ☑ .6-1.5m ☐ 1.6-3m

List 3 of the most common **SHRUB** and/or **TREE** seedlings observed:

1. **2.** **3.**

8. GROUNDCOVER % cover of graminoids (grasses, sedges and rushes):

☐ Absent ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☑ 51-75% ☐ 76-100%

9. TOTAL GROUNDCOVER % cover (including graminiods and forbes):

☐ Absent ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☑ 76-100%

List 4 dominant **GROUNDCOVER** species observed:

1. Cladium jamaicense **2.** Stillingia aquatica

3. Vaccinium myrsinites **4.** Taxicodendron radicans

List 3 of the most common **GROUNDCOVER** seedlings observed:

1. **2.** **3.**

List the **WEEDY** or **RUDERAL** species observed:

1. **2.** **3.**

10. Tree density: ☑ appropriate ☐ inappropriate **Why?:** ☑ too dense ☐ too sparse
11. Tree health: ☑ trees healthy ☐ trees stressed **Why?:** ☐ too dense ☐ too wet

12. Hydrologic indicators:
☑ hydric soils ☐ sediment deposition ☑ algal mat/aufwuchs ☐ aquatic bryotphytes ☑ aquatic plants
☑ rafted debris ☐ elevated lichen lines ☑ aquatic fauna ☑ tussocks/hummocks ☑ secondary flow channels
☑ water stained vegetation/ stain lines ☑ morphological plant adaptations/adventitious roots/buttressed trunks/hypertrophied lenticles

13. Water table: ☑ at the surface ☐ below surface **Standing water:** ☑ present ☐ absent
14. Water color: ☑ tannic ☐ non-tannic/clear ☐ cloudy **If cloudy, why?** ☐ suspended sediments ☐ other:
15. Water column: ☐ sphagnum present ☐ utricularia present
16. Altered hydrology: ☐ soil subsidence / oxidation of muck ☐ exposed roots ☐ abnormal tree fall due to soil subsidence
☐ inappropriate vegetation ☐ lichen lines: ☐ typical ☐ abnormal

List inappropriate vegetation:

1. **2.** **3.**
4. **5.** **6.**

17. Wildlife usage and natural history observations:
☐ footprints ☐ scat ☐ herbivory observed ☐ bird nests/calls ☐ fish observed
☐ animal remains ☐ scratch marks ☐ frog calls ☑ arthropods observed ☐ reptiles observed ☐ mammals observed

Notes on wildlife useage observed:

crickets and bees

18. Exotic species: ☐ present ☑ absent

If present **must be georeferenced** and include the following information:

Species: **Location:** **latitude** **longitude**
% cover: ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%
Species: **Location:** **latitude** **longitude**
% cover: ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

19. Notes on the general aspect of the site/techniques to meet restoration goals:
Is natural regeneration occuring? ☐ yes ☑ no **and:** ☑ species appropriate ☐ supplemental planting/seeding needed
Site is/has: ☑ fire suppressed ☑ appropriately managed ☐ secondary growth ☐ planted ☐ clear-cut
If planted: ☐ bedded and planted ☐ not bedded but managed for pine **~Tree age:** ☐ 0-5 yrs ☐ 6-10 yrs ☐ 11-20 yrs ☐ 20+ yrs
Recommendations for restoration: ☐ prescribed burn ☐ mechanical treatment **other:**

Specific notes on restoration, observations, or adaptive management techniques:

Reduce canopy and continue prescribed burning as per the mitigation plan.

Site Name: Breakfast Point **Plant community type:** Cypress Flat

Transect ID: BPQT10_P5 **Date and time (am/pm):** 12/22/2004 ☑ AM ☐ PM

1. Weather: ☐ Full Sun ☐ Part Sun ☐ Cloudy ☐ Cloudy and Rain/Fog

2. Temperature: ☐ 20-50 F ☑ 51-70 F ☐ 71-90 F ☐ 91-110 F

3. CANOPY % cover: ☐ Pine Plantation (Rows) ☐ Managed for Pine ☐ Natural Forest

☐ Absent ☐ 0-1% ☐ 1-5% ☑ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

4. Estimated height class of the majority of **TREES** using the following scale: ☐ absent ☐ 3-5m ☐ 6-10m ☐ >10m

List 3 dominant **TREE** species observed in canopy:

1. Taxodium ascendens **2.** Pinus elliottii **3.**

5. Estimated height class of the majority of **SUBCANOPY** using the following scale: ☐ absent ☑ 3-5m ☐ 6-10m ☐ >10m

List 3 dominant **SUBCANOPY** species observed:

1. Taxodium ascendens **2.** Pinus elliottii **3.**

6. SHRUBS % cover: ☐ Absent ☐ 0-1% ☐ 1-5% ☑ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

List 3 dominant **SHRUB** species observed:

1. Myrica cerifera **2.** Nyssa sylvatica v. ursina **3.** Photinia pyrifolia (=Aronia arbutifolia)

7. Estimated height class of the majority of **SHRUBS** using the following scale: ☐ absent ☐ 0-.5m ☐ .6-1.5m ☑ 1.6-3m

List 3 of the most common **SHRUB** and/or **TREE** seedlings observed:

1. Myrica cerifera **2.** Taxodium ascendens **3.** Pinus elliottii

8. GROUNDCOVER % cover of graminoids (grasses, sedges and rushes):

☐ Absent ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☑ 51-75% ☐ 76-100%

9. TOTAL GROUNDCOVER % cover (including graminiods and forbes):

☐ Absent ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☑ 76-100%

List 4 dominant **GROUNDCOVER** species observed:

1. Panicum virgatum **2.** Andropogon virginicus

3. Ludwigia pilosa **4.** Spartina patens

List 3 of the most common **GROUNDCOVER** seedlings observed:

1. Andropogon virginicus **2.** Ludwigia pilosa **3.**

List the **WEEDY** or **RUDERAL** species observed:

1. Andropogon virginicus **2.** **3.**

10. Tree density: ☑ appropriate ☐ inappropriate **Why?:** ☐ too dense ☐ too sparse
11. Tree health: ☑ trees healthy ☐ trees stressed **Why?:** ☐ too dense ☐ too wet

12. Hydrologic indicators:
☑ hydric soils ☐ sediment deposition ☑ algal mat/aufwuchs ☐ aquatic bryotphytes ☐ aquatic plants
☐ rafted debris ☑ elevated lichen lines ☑ aquatic fauna ☑ tussocks/hummocks ☐ secondary flow channels
☑ water stained vegetation/ stain lines ☑ morphological plant adaptations/adventitious roots/buttressed trunks/hypertrophied lenticles

13. Water table: ☑ at the surface ☐ below surface **Standing water:** ☑ present ☐ absent
14. Water color: ☑ tannic ☐ non-tannic/clear ☐ cloudy **If cloudy, why?** ☐ suspended sediments ☐ other:
15. Water column: ☐ sphagnum present ☐ utricularia present
16. Altered hydrology: ☐ soil subsidence / oxidation of muck ☐ exposed roots ☐ abnormal tree fall due to soil subsidence
☐ inappropriate vegetation ☐ lichen lines: ☐ typical ☐ abnormal

List inappropriate vegetation:

1. **2.** **3.**
4. **5.** **6.**

17. Wildlife usage and natural history observations:
☐ footprints ☐ scat ☐ herbivory observed ☑ bird nests/calls ☐ fish observed
☐ animal remains ☐ scratch marks ☑ frog calls ☐ arthropods observed ☐ reptiles observed ☐ mammals observed

Notes on wildlife useage observed:

robins feeding on Nyssa ursina fruit and Myrica cerifera. Wintering warblers in shrubs.

18. Exotic species: ☐ present ☑ absent

If present **must be georeferenced** and include the following information:

Species: **Location:** **latitude** **longitude**
% cover: ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%
Species: **Location:** **latitude** **longitude**
% cover: ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

19. Notes on the general aspect of the site/techniques to meet restoration goals:
Is natural regeneration occuring? ☑ yes ☐ no **and:** ☐ species appropriate ☐ supplemental planting/seeding needed
Site is/has: ☑ fire suppressed ☐ appropriately managed ☐ secondary growth ☐ planted ☐ clear-cut
If planted: ☐ bedded and planted ☑ not bedded but managed for pine **~Tree age:** ☐ 0-5 yrs ☐ 6-10 yrs ☐ 11-20 yrs ☐ 20+ yrs
Recommendations for restoration: ☑ prescribed burn ☐ mechanical treatment **other:**

Specific notes on restoration, observations, or adaptive management techniques:

Reduce canopy and continue prescribed burning as per the mitigation plan.

Site Name: Breakfast Point **Plant community type:** Mesic Pine Flatwoods

Transect ID: BPQT11_P1 **Date and time (am/pm):** 11/2/2006 ☐ AM ☑ PM

1. Weather: ☑ Full Sun ☐ Part Sun ☐ Cloudy ☐ Cloudy and Rain/Fog

2. Temperature: ☐ 20-50 F ☑ 51-70 F ☐ 71-90 F ☐ 91-110 F

3. CANOPY % cover: ☑ Pine Plantation (Rows) ☐ Managed for Pine ☐ Natural Forest

☐ Absent ☐ 0-1% ☐ 1-5% ☑ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

4. Estimated height class of the majority of **TREES** using the following scale: ☐ absent ☐ 3-5m ☑ 6-10m ☐ >10m

List 3 dominant **TREE** species observed in canopy:

1. Pinus elliottii **2.** **3.**

5. Estimated height class of the majority of **SUBCANOPY** using the following scale: ☐ absent ☐ 3-5m ☑ 6-10m ☐ >10m

List 3 dominant **SUBCANOPY** species observed:

1. Pinus elliottii **2.** Myrica cerifera **3.**

6. SHRUBS % cover: ☐ Absent ☐ 0-1% ☐ 1-5% ☑ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

List 3 dominant **SHRUB** species observed:

1. Myrica cerifera **2.** Ilex vomitoria **3.**

7. Estimated height class of the majority of **SHRUBS** using the following scale: ☐ absent ☐ 0-.5m ☐ .6-1.5m ☑ 1.6-3m

List 3 of the most common **SHRUB** and/or **TREE** seedlings observed:

1. **2.** **3.**

8. GROUNDCOVER % cover of graminoids (grasses, sedges and rushes):

☐ Absent ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☑ 51-75% ☐ 76-100%

9. TOTAL GROUNDCOVER % cover (including graminiods and forbes):

☐ Absent ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☑ 51-75% ☐ 76-100%

List 4 dominant **GROUNDCOVER** species observed:

1. Cladium jamaicense **2.** Panicum spp

3. Spartina patens **4.**

List 3 of the most common **GROUNDCOVER** seedlings observed:

1. **2.** **3.**

List the **WEEDY** or **RUDERAL** species observed:

1. **2.** **3.**

10. Tree density: ☐ appropriate ☑ inappropriate **Why?:** ☑ too dense ☐ too sparse
11. Tree health: ☐ trees healthy ☑ trees stressed **Why?:** ☐ too dense ☑ too wet

12. Hydrologic indicators:
☑ hydric soils ☐ sediment deposition ☐ algal mat/aufwuchs ☐ aquatic bryotphytes ☑ aquatic plants
☐ rafted debris ☐ elevated lichen lines ☐ aquatic fauna ☑ tussocks/hummocks ☐ secondary flow channels
☑ water stained vegetation/ stain lines ☑ morphological plant adaptations/adventitious roots/buttressed trunks/hypertrophied lenticles

13. Water table: ☐ at the surface ☑ below surface **Standing water:** ☐ present ☑ absent
14. Water color: ☐ tannic ☐ non-tannic/clear ☐ cloudy **If cloudy, why?** ☐ suspended sediments ☐ other:
15. Water column: ☐ sphagnum present ☐ utricularia present
16. Altered hydrology: ☐ soil subsidence / oxidation of muck ☐ exposed roots ☐ abnormal tree fall due to soil subsidence
☐ inappropriate vegetation ☐ lichen lines: ☐ typical ☐ abnormal

List inappropriate vegetation:

1. **2.** **3.**
4. **5.** **6.**

17. Wildlife usage and natural history observations:
☑ footprints ☐ scat ☐ herbivory observed ☑ bird nests/calls ☐ fish observed
☐ animal remains ☐ scratch marks ☐ frog calls ☑ arthropods observed ☐ reptiles observed ☐ mammals observed

Notes on wildlife useage observed:

feral hog and deer tracks. Red shouldered hawk observed, mosquitos and crickets

18. Exotic species: ☐ present ☑ absent

If present **must be georeferenced** and include the following information:

Species: **Location:** **latitude** **longitude**
% cover: ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%
Species: **Location:** **latitude** **longitude**
% cover: ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

19. Notes on the general aspect of the site/techniques to meet restoration goals:
Is natural regeneration occuring? ☐ yes ☑ no **and:** ☑ species appropriate ☐ supplemental planting/seeding needed
Site is/has: ☑ fire suppressed ☑ appropriately managed ☐ secondary growth ☑ planted ☐ clear-cut
If planted: ☑ bedded and planted ☐ not bedded but managed for pine **~Tree age:** ☐ 0-5 yrs ☐ 6-10 yrs ☐ 11-20 yrs ☐ 20+ yrs
Recommendations for restoration: ☐ prescribed burn ☐ mechanical treatment **other:**

Specific notes on restoration, observations, or adaptive management techniques:

Reduce canopy and continue prescribed burning as per the mitigation plan.

Site Name: Breakfast Point **Plant community type:** Mesic Pine Flatwoods

Transect ID: BPQT11_P2 **Date and time (am/pm):** 11/7/2006 ☐ AM ☑ PM

1. Weather: ☑ Full Sun ☐ Part Sun ☐ Cloudy ☐ Cloudy and Rain/Fog

2. Temperature: ☐ 20-50 F ☑ 51-70 F ☐ 71-90 F ☐ 91-110 F

3. CANOPY % cover: ☑ Pine Plantation (Rows) ☐ Managed for Pine ☐ Natural Forest

☐ Absent ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☑ 51-75% ☐ 76-100%

4. Estimated height class of the majority of **TREES** using the following scale: ☐ absent ☐ 3-5m ☑ 6-10m ☐ >10m

List 3 dominant **TREE** species observed in canopy:

1. Pinus elliottii **2.** **3.**

5. Estimated height class of the majority of **SUBCANOPY** using the following scale: ☐ absent ☐ 3-5m ☑ 6-10m ☐ >10m

List 3 dominant **SUBCANOPY** species observed:

1. Pinus elliottii **2.** **3.**

6. SHRUBS % cover: ☐ Absent ☐ 0-1% ☐ 1-5% ☐ 6-25% ☑ 26-50% ☐ 51-75% ☐ 76-100%

List 3 dominant **SHRUB** species observed:

1. Ilex vomitoria **2.** Ilex glabra **3.**

7. Estimated height class of the majority of **SHRUBS** using the following scale: ☐ absent ☐ 0-.5m ☑ .6-1.5m ☐ 1.6-3m

List 3 of the most common **SHRUB** and/or **TREE** seedlings observed:

1. Ilex vomitoria **2.** Ilex glabra **3.**

8. GROUNDCOVER % cover of graminoids (grasses, sedges and rushes):

☐ Absent ☑ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☑ 76-100%

9. TOTAL GROUNDCOVER % cover (including graminiods and forbes):

☐ Absent ☐ 0-1% ☐ 1-5% ☐ 6-25% ☑ 26-50% ☐ 51-75% ☑ 76-100%

List 4 dominant **GROUNDCOVER** species observed:

1. Serenoa repens **2.** Ilex glabra

3. Arista stricta **4.** Toxidendron radicans

List 3 of the most common **GROUNDCOVER** seedlings observed:

1. **2.** **3.**

List the **WEEDY** or **RUDERAL** species observed:

1. **2.** **3.**

10. Tree density: ☐ appropriate ☑ inappropriate **Why?:** ☑ too dense ☐ too sparse
11. Tree health: ☐ trees healthy ☑ trees stressed **Why?:** ☑ too dense ☐ too wet

12. Hydrologic indicators: ☐ hydric soils ☐ sediment deposition ☐ algal mat/aufwuchs ☐ aquatic bryotphytes ☐ aquatic plants
☐ rafted debris ☐ elevated lichen lines ☐ aquatic fauna ☐ tussocks/hummocks ☐ secondary flow channels
☐ water stained vegetation/ stain lines ☐ morphological plant adaptations/adventitious roots/buttressed trunks/hypertrophied lenticles

13. Water table: ☐ at the surface ☐ below surface **Standing water:** ☐ present ☑ absent
14. Water color: ☐ tannic ☐ non-tannic/clear ☐ cloudy **If cloudy, why?** ☐ suspended sediments ☐ other:
15. Water column: ☐ sphagnum present ☐ utricularia present
16. Altered hydrology: ☐ soil subsidence / oxidation of muck ☐ exposed roots ☐ abnormal tree fall due to soil subsidence
☐ inappropriate vegetation ☐ lichen lines: ☐ typical ☐ abnormal

List inappropriate vegetation:

1. **2.** **3.**

4. **5.** **6.**

17. Wildlife usage and natural history observations: ☑ footprints ☐ scat ☐ herbivory observed ☐ bird nests/calls ☐ fish observed
☑ animal remains ☐ scratch marks ☐ frog calls ☐ arthropods observed ☑ reptiles observed ☐ mammals observed

Notes on wildlife useage observed:

Hog rutting and deer prints, dead racoon, water moccasin

18. Exotic species: ☐ present ☑ absent

If present **must be georeferenced** and include the following information:

Species: **Location:** **latitude** **longitude**
% cover: ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

Species: **Location:** **latitude** **longitude**
% cover: ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

19. Notes on the general aspect of the site/techniques to meet restoration goals:

Is natural regeneration occuring? ☐ yes ☐ no **and:** ☐ species appropriate ☐ supplemental planting/seeding needed
Site is/has: ☑ fire suppressed ☑ appropriately managed ☐ secondary growth ☐ planted ☐ clear-cut
If planted: ☐ bedded and planted ☐ not bedded but managed for pine **~Tree age:** ☐ 0-5 yrs ☐ 6-10 yrs ☐ 11-20 yrs ☐ 20+ yrs
Recommendations for restoration: ☑ prescribed burn ☑ mechanical treatment **other:**

Specific notes on restoration, observations, or adaptive management techniques:

Reduce canopy and continue prescribed burning as per the mitigation plan.

Site Name: Breakfast Point **Plant community type:** Mesic Pine Flatwoods

Transect ID: BPQT12_P1 **Date and time (am/pm):** 11/3/2006 ☑ AM ☐ PM

1. Weather: ☑ Full Sun ☐ Part Sun ☐ Cloudy ☐ Cloudy and Rain/Fog

2. Temperature: ☐ 20-50 F ☑ 51-70 F ☐ 71-90 F ☐ 91-110 F

3. CANOPY % cover: ☑ Pine Plantation (Rows) ☐ Managed for Pine ☐ Natural Forest

☐ Absent ☐ 0-1% ☐ 1-5% ☑ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

4. Estimated height class of the majority of **TREES** using the following scale: ☐ absent ☐ 3-5m ☐ 6-10m ☑ >10m

List 3 dominant **TREE** species observed in canopy:

1. Pinus elliottii **2.** **3.**

5. Estimated height class of the majority of **SUBCANOPY** using the following scale: ☑ absent ☐ 3-5m ☐ 6-10m ☐ >10m

List 3 dominant **SUBCANOPY** species observed:

1. **2.** **3.**

6. SHRUBS % cover: ☐ Absent ☐ 0-1% ☑ 1-5% ☐ 6-25% ☐ 26-50% ☑ 51-75% ☐ 76-100%

List 3 dominant **SHRUB** species observed:

1. Illx glabra **2.** Ilex vomitoria **3.**

7. Estimated height class of the majority of **SHRUBS** using the following scale: ☐ absent ☐ 0-.5m ☑ .6-1.5m ☐ 1.6-3m

List 3 of the most common **SHRUB** and/or **TREE** seedlings observed:

1. **2.** **3.**

8. GROUNDCOVER % cover of graminoids (grasses, sedges and rushes):

☐ Absent ☐ 0-1% ☑ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

9. TOTAL GROUNDCOVER % cover (including graminiods and forbes):

☐ Absent ☐ 0-1% ☐ 1-5% ☐ 6-25% ☑ 26-50% ☐ 51-75% ☐ 76-100%

List 4 dominant **GROUNDCOVER** species observed:

1. Serenoa repens **2.** Arista stricta

3. Panicum verrucosum **4.**

List 3 of the most common **GROUNDCOVER** seedlings observed:

1. **2.** **3.**

List the **WEEDY** or **RUDERAL** species observed:

1. **2.** **3.**

10. Tree density: ☐ appropriate ☑ inappropriate **Why?:** ☑ too dense ☐ too sparse
11. Tree health: ☑ trees healthy ☐ trees stressed **Why?:** ☐ too dense ☐ too wet

12. Hydrologic indicators: ☐ hydric soils ☐ sediment deposition ☐ algal mat/aufwuchs ☐ aquatic bryotphytes ☐ aquatic plants
☐ rafted debris ☐ elevated lichen lines ☐ aquatic fauna ☐ tussocks/hummocks ☐ secondary flow channels
☐ water stained vegetation/ stain lines ☐ morphological plant adaptations/adventitious roots/buttressed trunks/hypertrophied lenticles

13. Water table: ☐ at the surface ☑ below surface **Standing water:** ☐ present ☑ absent
14. Water color: ☐ tannic ☐ non-tannic/clear ☐ cloudy **If cloudy, why?** ☐ suspended sediments ☐ other:
15. Water column: ☐ sphagnum present ☐ utricularia present
16. Altered hydrology: ☐ soil subsidence / oxidation of muck ☐ exposed roots ☐ abnormal tree fall due to soil subsidence
☐ inappropriate vegetation ☐ lichen lines: ☐ typical ☐ abnormal

List inappropriate vegetation:

1. **2.** **3.**

4. **5.** **6.**

17. Wildlife usage and natural history observations: ☐ footprints ☐ scat ☐ herbivory observed ☑ bird nests/calls ☐ fish observed
☐ animal remains ☐ scratch marks ☐ frog calls ☐ arthropods observed ☐ reptiles observed ☐ mammals observed

Notes on wildlife useage observed:

mockingbird

18. Exotic species: ☐ present ☑ absent

If present **must be georeferenced** and include the following information:

Species: **Location:** **latitude** **longitude**
% cover: ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

Species: **Location:** **latitude** **longitude**
% cover: ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

19. Notes on the general aspect of the site/techniques to meet restoration goals:

Is natural regeneration occuring? ☐ yes ☐ no **and:** ☐ species appropriate ☐ supplemental planting/seeding needed
Site is/has: ☐ fire suppressed ☐ appropriately managed ☐ secondary growth ☐ planted ☐ clear-cut
If planted: ☑ bedded and planted ☐ not bedded but managed for pine **~Tree age:** ☐ 0-5 yrs ☐ 6-10 yrs ☑ 11-20 yrs ☐ 20+ yrs
Recommendations for restoration: ☐ prescribed burn ☐ mechanical treatment **other:**

Specific notes on restoration, observations, or adaptive management techniques:

Reduce canopy and continue prescribed burning as per the mitigation plan.

Site Name: Breakfast Point **Plant community type:** Mesic Pine Flatwoods

Transect ID: BPQT12_P2 **Date and time (am/pm):** 11/3/2006 ☑ AM ☐ PM

1. Weather: ☑ Full Sun ☐ Part Sun ☐ Cloudy ☐ Cloudy and Rain/Fog

2. Temperature: ☐ 20-50 F ☑ 51-70 F ☐ 71-90 F ☐ 91-110 F

3. CANOPY % cover: ☑ Pine Plantation (Rows) ☐ Managed for Pine ☐ Natural Forest

☐ Absent ☐ 0-1% ☐ 1-5% ☑ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

4. Estimated height class of the majority of **TREES** using the following scale: ☐ absent ☐ 3-5m ☑ 6-10m ☑ >10m

List 3 dominant **TREE** species observed in canopy:

1. Pinus elliottii **2.** **3.**

5. Estimated height class of the majority of **SUBCANOPY** using the following scale: ☐ absent ☐ 3-5m ☑ 6-10m ☐ >10m

List 3 dominant **SUBCANOPY** species observed:

1. Pinus elliottii **2.** **3.**

6. SHRUBS % cover: ☐ Absent ☐ 0-1% ☑ 1-5% ☐ 6-25% ☐ 26-50% ☑ 51-75% ☐ 76-100%

List 3 dominant **SHRUB** species observed:

1. Myrica cerifera **2.** Nyssa ursina **3.** Ilex vomitoria

7. Estimated height class of the majority of **SHRUBS** using the following scale: ☐ absent ☐ 0-.5m ☑ .6-1.5m ☐ 1.6-3m

List 3 of the most common **SHRUB** and/or **TREE** seedlings observed:

1. **2.** **3.**

8. GROUNDCOVER % cover of graminoids (grasses, sedges and rushes):

☐ Absent ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

9. TOTAL GROUNDCOVER % cover (including graminiods and forbes):

☐ Absent ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☑ 76-100%

List 4 dominant **GROUNDCOVER** species observed:

1. Cladium jamenesense **2.** Juncus romarianus

3. Spartina patens **4.** Hydrocotyle sp.

List 3 of the most common **GROUNDCOVER** seedlings observed:

1. **2.** **3.**

List the **WEEDY** or **RUDERAL** species observed:

1. **2.** **3.**

10. Tree density: ☐ appropriate ☑ inappropriate **Why?:** ☑ too dense ☐ too sparse
11. Tree health: ☐ trees healthy ☑ trees stressed **Why?:** ☐ too dense ☑ too wet

12. Hydrologic indicators:
☑ hydric soils ☐ sediment deposition ☐ algal mat/aufwuchs ☐ aquatic bryotphytes ☑ aquatic plants
☐ rafted debris ☐ elevated lichen lines ☐ aquatic fauna ☑ tussocks/hummocks ☐ secondary flow channels
☑ water stained vegetation/ stain lines ☑ morphological plant adaptations/adventitious roots/buttressed trunks/hypertrophied lenticles

13. Water table: ☑ at the surface ☐ below surface **Standing water:** ☑ present ☑ absent
14. Water color: ☑ tannic ☐ non-tannic/clear ☐ cloudy **If cloudy, why?** ☐ suspended sediments ☐ other:
15. Water column: ☐ sphagnum present ☐ utricularia present
16. Altered hydrology: ☐ soil subsidence / oxidation of muck ☐ exposed roots ☐ abnormal tree fall due to soil subsidence
☐ inappropriate vegetation ☐ lichen lines: ☐ typical ☐ abnormal

List inappropriate vegetation:

1. **2.** **3.**

4. **5.** **6.**

17. Wildlife usage and natural history observations:
☐ footprints ☐ scat ☐ herbivory observed ☑ bird nests/calls ☐ fish observed
☐ animal remains ☐ scratch marks ☐ frog calls ☑ arthropods observed ☐ reptiles observed ☐ mammals observed

Notes on wildlife useage observed:

crickets

18. Exotic species: ☐ present ☑ absent

If present **must be georeferenced** and include the following information:

Species: **Location:** **latitude** **longitude**
% cover: ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

Species: **Location:** **latitude** **longitude**
% cover: ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

19. Notes on the general aspect of the site/techniques to meet restoration goals:

Is natural regeneration occuring? ☐ yes ☐ no **and:** ☑ species appropriate ☐ supplemental planting/seeding needed
Site is/has: ☑ fire suppressed ☐ appropriately managed ☐ secondary growth ☐ planted ☐ clear-cut
If planted: ☑ bedded and planted ☐ not bedded but managed for pine **~Tree age:** ☐ 0-5 yrs ☐ 6-10 yrs ☑ 11-20 yrs ☐ 20+ yrs
Recommendations for restoration: ☐ prescribed burn ☑ mechanical treatment **other:**

Specific notes on restoration, observations, or adaptive management techniques:

Reduce canopy and continue prescribed burning as per the mitigation plan.

Site Name: Breakfast Point **Plant community type:** Mesic Pine Flatwoods

Transect ID: BPQT13_P1 **Date and time (am/pm):** 11/1/2004 ☑ AM ☐ PM

1. Weather: ☑ Full Sun ☐ Part Sun ☐ Cloudy ☐ Cloudy and Rain/Fog

2. Temperature: ☐ 20-50 F ☐ 51-70 F ☑ 71-90 F ☐ 91-110 F

3. CANOPY % cover: ☑ Pine Plantation (Rows) ☐ Managed for Pine ☐ Natural Forest

☐ Absent ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☑ 76-100%

4. Estimated height class of the majority of **TREES** using the following scale: ☐ absent ☐ 3-5m ☑ 6-10m ☑ >10m

List 3 dominant **TREE** species observed in canopy:

1. Pinus elliottii **2.** **3.**

5. Estimated height class of the majority of **SUBCANOPY** using the following scale: ☐ absent ☐ 3-5m ☑ 6-10m ☐ >10m

List 3 dominant **SUBCANOPY** species observed:

1. **2.** **3.**

6. SHRUBS % cover: ☐ Absent ☐ 0-1% ☐ 1-5% ☑ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

List 3 dominant **SHRUB** species observed:

1. Ilex glabra **2.** **3.**

7. Estimated height class of the majority of **SHRUBS** using the following scale: ☐ absent ☐ 0-.5m ☑ .6-1.5m ☐ 1.6-3m

List 3 of the most common **SHRUB** and/or **TREE** seedlings observed:

1. **2.** **3.**

8. GROUNDCOVER % cover of graminoids (grasses, sedges and rushes):

☐ Absent ☑ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

9. TOTAL GROUNDCOVER % cover (including graminiods and forbes):

☐ Absent ☐ 0-1% ☐ 1-5% ☑ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

List 4 dominant **GROUNDCOVER** species observed:

1. Serenoa repens **2.** Vitis rotundifolia

3. Ilex glabra **4.** Quercus minima

List 3 of the most common **GROUNDCOVER** seedlings observed:

1. **2.** **3.**

List the **WEEDY** or **RUDERAL** species observed:

1. **2.** **3.**

10. Tree density: ☐ appropriate ☑ inappropriate **Why?:** ☑ too dense ☐ too sparse
11. Tree health: ☑ trees healthy ☐ trees stressed **Why?:** ☐ too dense ☐ too wet

12. Hydrologic indicators: ☐ hydric soils ☐ sediment deposition ☐ algal mat/aufwuchs ☐ aquatic bryotphytes ☐ aquatic plants
☐ rafted debris ☐ elevated lichen lines ☐ aquatic fauna ☐ tussocks/hummocks ☐ secondary flow channels
☐ water stained vegetation/ stain lines ☐ morphological plant adaptations/adventitious roots/buttressed trunks/hypertrophied lenticles

13. Water table: ☐ at the surface ☑ below surface **Standing water:** ☐ present ☑ absent
14. Water color: ☐ tannic ☐ non-tannic/clear ☐ cloudy **If cloudy, why?** ☐ suspended sediments ☐ other:
15. Water column: ☐ sphagnum present ☐ utricularia present
16. Altered hydrology: ☐ soil subsidence / oxidation of muck ☐ exposed roots ☐ abnormal tree fall due to soil subsidence
☐ inappropriate vegetation ☐ lichen lines: ☐ typical ☐ abnormal

List inappropriate vegetation:

1. **2.** **3.**

4. **5.** **6.**

17. Wildlife usage and natural history observations: ☐ footprints ☐ scat ☐ herbivory observed ☑ bird nests/calls ☐ fish observed
☐ animal remains ☐ scratch marks ☐ frog calls ☐ arthropods observed ☑ reptiles observed ☐ mammals observed

Notes on wildlife useage observed:

Red shouldered hawk, box turtle and mosquitos

18. Exotic species: ☐ present ☐ absent

If present **must be georeferenced** and include the following information:

Species: **Location:** **latitude** **longitude**
% cover: ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%
Species: **Location:** **latitude** **longitude**
% cover: ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

19. Notes on the general aspect of the site/techniques to meet restoration goals:
Is natural regeneration occuring? ☐ yes ☑ no **and:** ☑ species appropriate ☐ supplemental planting/seeding needed
Site is/has: ☐ fire suppressed ☑ appropriately managed ☐ secondary growth ☑ planted ☐ clear-cut
If planted: ☑ bedded and planted ☐ not bedded but managed for pine **~Tree age:** ☐ 0-5 yrs ☐ 6-10 yrs ☑ 11-20 yrs ☐ 20+ yrs
Recommendations for restoration: ☐ prescribed burn ☑ mechanical treatment **other:**

Specific notes on restoration, observations, or adaptive management techniques:

Reduce canopy and continue prescribed burning as per the mitigation plan.

Site Name: Breakfast Point **Plant community type:** Cypress Flat

Transect ID: BPQT13_P2 **Date and time (am/pm):** 11/1/2004 ☑ AM ☐ PM

1. Weather: ☑ Full Sun ☐ Part Sun ☐ Cloudy ☐ Cloudy and Rain/Fog

2. Temperature: ☐ 20-50 F ☑ 51-70 F ☑ 71-90 F ☐ 91-110 F

3. CANOPY % cover: ☐ Pine Plantation (Rows) ☐ Managed for Pine ☑ Natural Forest

☐ Absent ☐ 0-1% ☐ 1-5% ☐ 6-25% ☑ 26-50% ☐ 51-75% ☐ 76-100%

4. Estimated height class of the majority of **TREES** using the following scale: ☐ absent ☐ 3-5m ☐ 6-10m ☑ >10m

List 3 dominant **TREE** species observed in canopy:

1. Taxodium ascendens **2.** Magnolia virginiana **3.** Pinus elliiottii

5. Estimated height class of the majority of **SUBCANOPY** using the following scale: ☐ absent ☐ 3-5m ☑ 6-10m ☐ >10m

List 3 dominant **SUBCANOPY** species observed:

1. Pinus elliottii **2.** Nyssa sylvatica v. biflora **3.** Magnolia virginiana

6. SHRUBS % cover: ☐ Absent ☐ 0-1% ☐ 1-5% ☑ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

List 3 dominant **SHRUB** species observed:

1. Clethra alnifolia **2.** Myrica cerifera **3.** Ilex coriacea

7. Estimated height class of the majority of **SHRUBS** using the following scale: ☐ absent ☐ 0-.5m ☑ .6-1.5m ☐ 1.6-3m

List 3 of the most common **SHRUB** and/or **TREE** seedlings observed:

1. **2.** **3.**

8. GROUNDCOVER % cover of graminoids (grasses, sedges and rushes):

☑ Absent ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

9. TOTAL GROUNDCOVER % cover (including graminiods and forbes):

☐ Absent ☐ 0-1% ☑ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

List 4 dominant **GROUNDCOVER** species observed:

1. Lyonia lucida **2.** Pieris sp

3. Clethera alnifolia **4.**

List 3 of the most common **GROUNDCOVER** seedlings observed:

1. **2.** **3.**

List the **WEEDY** or **RUDERAL** species observed:

1. **2.** **3.**

10. Tree density: ☑ appropriate ☐ inappropriate **Why?:** ☐ too dense ☐ too sparse
11. Tree health: ☑ trees healthy ☐ trees stressed **Why?:** ☐ too dense ☐ too wet

12. Hydrologic indicators:
☑ hydric soils ☐ sediment deposition ☐ algal mat/aufwuchs ☐ aquatic bryotphytes ☑ aquatic plants
☐ rafted debris ☑ elevated lichen lines ☑ aquatic fauna ☑ tussocks/hummocks ☐ secondary flow channels
☑ water stained vegetation/ stain lines ☑ morphological plant adaptations/adventitious roots/buttressed trunks/hypertrophied lenticles

13. Water table: ☑ at the surface ☐ below surface **Standing water:** ☑ present ☐ absent
14. Water color: ☑ tannic ☐ non-tannic/clear ☐ cloudy **If cloudy, why?** ☐ suspended sediments ☐ other:
15. Water column: ☐ sphagnum present ☐ utricularia present
16. Altered hydrology: ☐ soil subsidence / oxidation of muck ☐ exposed roots ☐ abnormal tree fall due to soil subsidence
☐ inappropriate vegetation ☐ lichen lines: ☐ typical ☐ abnormal

List inappropriate vegetation:

1. **2.** **3.**
4. **5.** **6.**

17. Wildlife usage and natural history observations: ☐ footprints ☐ scat ☐ herbivory observed ☐ bird nests/calls ☐ fish observed
☐ animal remains ☐ scratch marks ☐ frog calls ☑ arthropods observed ☑ reptiles observed ☐ mammals observed

Notes on wildlife useage observed:

bullfrogs calls, mosquitos and monarch butterfly, red wasps

18. Exotic species: ☐ present ☑ absent

If present **must be georeferenced** and include the following information:

Species: **Location:** **latitude** **longitude**
% cover: ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%
Species: **Location:** **latitude** **longitude**
% cover: ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

19. Notes on the general aspect of the site/techniques to meet restoration goals:
Is natural regeneration occuring? ☐ yes ☐ no **and:** ☑ species appropriate ☐ supplemental planting/seeding needed
Site is/has: ☐ fire suppressed ☑ appropriately managed ☐ secondary growth ☐ planted ☐ clear-cut
If planted: ☐ bedded and planted ☐ not bedded but managed for pine **~Tree age:** ☐ 0-5 yrs ☐ 6-10 yrs ☐ 11-20 yrs ☐ 20+ yrs
Recommendations for restoration: ☐ prescribed burn ☐ mechanical treatment **other:**

Specific notes on restoration, observations, or adaptive management techniques:

Allow prescribed fire to burn into swamp and marsh as per the mitigation plan.

Site Name: Breakfast Point **Plant community type:** Hydric Pine Flatwoods

Transect ID: BPQT13_P3 **Date and time (am/pm):** 12/21/2004 ☐ AM ☑ PM

1. Weather: ☐ Full Sun ☐ Part Sun ☑ Cloudy ☑ Cloudy and Rain/Fog

2. Temperature: ☐ 20-50 F ☑ 51-70 F ☐ 71-90 F ☐ 91-110 F

3. CANOPY % cover: ☐ Pine Plantation (Rows) ☐ Managed for Pine ☐ Natural Forest

☐ Absent ☐ 0-1% ☑ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

4. Estimated height class of the majority of **TREES** using the following scale: ☐ absent ☐ 3-5m ☑ 6-10m ☐ >10m

List 3 dominant **TREE** species observed in canopy:

1. Taxodium ascendens **2.** Pinus elliottii **3.** Magnolia virginiana

5. Estimated height class of the majority of **SUBCANOPY** using the following scale: ☐ absent ☑ 3-5m ☐ 6-10m ☐ >10m

List 3 dominant **SUBCANOPY** species observed:

1. Nyssa biflora **2.** Cyrilla monophylla **3.** Magnolia virginiana

6. SHRUBS % cover: ☐ Absent ☐ 0-1% ☐ 1-5% ☑ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

List 3 dominant **SHRUB** species observed:

1. Clethra alnifolia **2.** Ilex coraicea **3.** Ilex vomitoria

7. Estimated height class of the majority of **SHRUBS** using the following scale: ☐ absent ☐ 0-.5m ☐ .6-1.5m ☑ 1.6-3m

List 3 of the most common **SHRUB** and/or **TREE** seedlings observed:

1. **2.** **3.**

8. GROUNDCOVER % cover of graminoids (grasses, sedges and rushes):

☐ Absent ☐ 0-1% ☐ 1-5% ☑ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

9. TOTAL GROUNDCOVER % cover (including graminiods and forbes):

☐ Absent ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☑ 51-75% ☐ 76-100%

List 4 dominant **GROUNDCOVER** species observed:

1. Cladium jamaicense **2.** Aristida stricta

3. Andropogn virginicus **4.** Juncus romarianus

List 3 of the most common **GROUNDCOVER** seedlings observed:

1. **2.** **3.**

List the **WEEDY** or **RUDERAL** species observed:

1. **2.** **3.**

10. Tree density: ☐ appropriate ☑ inappropriate **Why?:** ☑ too dense ☐ too sparse
11. Tree health: ☐ trees healthy ☑ trees stressed **Why?:** ☑ too dense ☐ too wet

12. Hydrologic indicators: ☐ hydric soils ☐ sediment deposition ☐ algal mat/aufwuchs ☐ aquatic bryotphytes ☑ aquatic plants
☐ rafted debris ☐ elevated lichen lines ☐ aquatic fauna ☑ tussocks/hummocks ☐ secondary flow channels
☐ water stained vegetation/ stain lines ☑ morphological plant adaptations/adventitious roots/buttressed trunks/hypertrophied lenticles

13. Water table: ☑ at the surface ☐ below surface **Standing water:** ☑ present ☐ absent
14. Water color: ☐ tannic ☐ non-tannic/clear ☑ cloudy **If cloudy, why?** ☐ suspended sediments ☐ other:
15. Water column: ☐ sphagnum present ☐ utricularia present
16. Altered hydrology: ☐ soil subsidence / oxidation of muck ☐ exposed roots ☐ abnormal tree fall due to soil subsidence
☐ inappropriate vegetation ☐ lichen lines: ☐ typical ☐ abnormal

List inappropriate vegetation:

1. **2.** **3.**

4. **5.** **6.**

17. Wildlife usage and natural history observations: ☐ footprints ☐ scat ☐ herbivory observed ☐ bird nests/calls ☐ fish observed
☐ animal remains ☐ scratch marks ☐ frog calls ☐ arthropods observed ☐ reptiles observed ☐ mammals observed

Notes on wildlife useage observed:

18. Exotic species: ☑ present ☐ absent

If present **must be georeferenced** and include the following information:

Species: Sapium sebiferum **Location:** **latitude** **longitude**
% cover: ☑ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

Species: **Location:** **latitude** **longitude**
% cover: ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

19. Notes on the general aspect of the site/techniques to meet restoration goals:

Is natural regeneration occuring? ☐ yes ☐ no **and:** ☑ species appropriate ☐ supplemental planting/seeding needed
Site is/has: ☑ fire suppressed ☐ appropriately managed ☐ secondary growth ☐ planted ☐ clear-cut
If planted: ☑ bedded and planted ☐ not bedded but managed for pine **~Tree age:** ☐ 0-5 yrs ☐ 6-10 yrs ☑ 11-20 yrs ☐ 20+ yrs
Recommendations for restoration: ☑ prescribed burn ☑ mechanical treatment **other:**

Specific notes on restoration, observations, or adaptive management techniques:

Canopy reduction and prescribed burning as per the mitigation plan.

Site Name: Breakfast Point **Plant community type:** Mesic Pine Flatwoods

Transect ID: BPQT14_P1 **Date and time (am/pm):** 12/21/2004 ☑ AM ☐ PM

1. Weather: ☑ Full Sun ☐ Part Sun ☐ Cloudy ☐ Cloudy and Rain/Fog

2. Temperature: ☐ 20-50 F ☐ 51-70 F ☑ 71-90 F ☐ 91-110 F

3. CANOPY % cover: ☐ Pine Plantation (Rows) ☐ Managed for Pine ☐ Natural Forest

☐ Absent ☐ 0-1% ☐ 1-5% ☑ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

4. Estimated height class of the majority of **TREES** using the following scale: ☐ absent ☐ 3-5m ☑ 6-10m ☐ >10m

List 3 dominant **TREE** species observed in canopy:

1. Pinus elliottii **2.** **3.**

5. Estimated height class of the majority of **SUBCANOPY** using the following scale: ☐ absent ☑ 3-5m ☐ 6-10m ☐ >10m

List 3 dominant **SUBCANOPY** species observed:

1. Pinus elliottii **2.** Magnolia virginiana **3.**

6. SHRUBS % cover: ☐ Absent ☐ 0-1% ☐ 1-5% ☐ 6-25% ☑ 26-50% ☑ 51-75% ☐ 76-100%

List 3 dominant **SHRUB** species observed:

1. Clethra alnifolia **2.** Myrica cerifera **3.** Rhus coppalina

7. Estimated height class of the majority of **SHRUBS** using the following scale: ☐ absent ☐ 0-.5m ☑ .6-1.5m ☐ 1.6-3m

List 3 of the most common **SHRUB** and/or **TREE** seedlings observed:

1. **2.** **3.**

8. GROUNDCOVER % cover of graminoids (grasses, sedges and rushes):

☐ Absent ☐ 0-1% ☑ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

9. TOTAL GROUNDCOVER % cover (including graminiods and forbes):

☐ Absent ☐ 0-1% ☐ 1-5% ☐ 6-25% ☑ 26-50% ☐ 51-75% ☐ 76-100%

List 4 dominant **GROUNDCOVER** species observed:

1. Aristida stricta **2.** Serenoa repens

3. Ilex glabra **4.** Clethra alnifolia

List 3 of the most common **GROUNDCOVER** seedlings observed:

1. **2.** **3.**

List the **WEEDY** or **RUDERAL** species observed:

1. **2.** **3.**

10. Tree density: ☐ appropriate ☑ inappropriate **Why?:** ☑ too dense ☐ too sparse
11. Tree health: ☐ trees healthy ☑ trees stressed **Why?:** ☑ too dense ☐ too wet

12. Hydrologic indicators: ☐ hydric soils ☐ sediment deposition ☐ algal mat/aufwuchs ☐ aquatic bryotphytes ☐ aquatic plants
☐ rafted debris ☐ elevated lichen lines ☐ aquatic fauna ☐ tussocks/hummocks ☐ secondary flow channels
☐ water stained vegetation/ stain lines ☐ morphological plant adaptations/adventitious roots/buttressed trunks/hypertrophied lenticles

13. Water table: ☐ at the surface ☑ below surface **Standing water:** ☐ present ☑ absent
14. Water color: ☐ tannic ☐ non-tannic/clear ☐ cloudy **If cloudy, why?** ☐ suspended sediments ☐ other:
15. Water column: ☐ sphagnum present ☐ utricularia present
16. Altered hydrology: ☐ soil subsidence / oxidation of muck ☐ exposed roots ☐ abnormal tree fall due to soil subsidence
☐ inappropriate vegetation ☐ lichen lines: ☐ typical ☐ abnormal

List inappropriate vegetation:

1. **2.** **3.**

4. **5.** **6.**

17. Wildlife usage and natural history observations: ☑ footprints ☑ scat ☐ herbivory observed ☑ bird nests/calls ☐ fish observed
☐ animal remains ☐ scratch marks ☐ frog calls ☑ arthropods observed ☐ reptiles observed ☐ mammals observed

Notes on wildlife useage observed:

ferral pig and deer tracks observed, ferral pig sact observed, Blue heron, yellow bellied warblers, mocking birds, and an osprey observed. Crickets and mosquitos observed

18. Exotic species: ☐ present ☑ absent

If present **must be georeferenced** and include the following information:

Species: **Location:** **latitude** **longitude**
% cover: ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

Species: **Location:** **latitude** **longitude**
% cover: ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

19. Notes on the general aspect of the site/techniques to meet restoration goals:

Is natural regeneration occuring? ☐ yes ☑ no **and:** ☐ species appropriate ☑ supplemental planting/seeding needed
Site is/has: ☑ fire suppressed ☐ appropriately managed ☐ secondary growth ☑ planted ☐ clear-cut
If planted: ☑ bedded and planted ☐ not bedded but managed for pine **~Tree age:** ☐ 0-5 yrs ☑ 6-10 yrs ☐ 11-20 yrs ☐ 20+ yrs
Recommendations for restoration: ☐ prescribed burn ☑ mechanical treatment **other:**

Specific notes on restoration, observations, or adaptive management techniques:

Canopy reduction and prescribed burning as per the mitigation plan.

Site Name: Breakfast Point **Plant community type:** Bayhead

Transect ID: BPQT14_P2 **Date and time (am/pm):** 12/21/2004 ☑ AM ☐ PM

1. Weather: ☑ Full Sun ☐ Part Sun ☐ Cloudy ☐ Cloudy and Rain/Fog

2. Temperature: ☐ 20-50 F ☐ 51-70 F ☑ 71-90 F ☐ 91-110 F

3. CANOPY % cover: ☐ Pine Plantation (Rows) ☐ Managed for Pine ☐ Natural Forest

☐ Absent ☐ 0-1% ☐ 1-5% ☐ 6-25% ☑ 26-50% ☐ 51-75% ☐ 76-100%

4. Estimated height class of the majority of **TREES** using the following scale: ☐ absent ☐ 3-5m ☐ 6-10m ☑ >10m

List 3 dominant **TREE** species observed in canopy:

1. Nyssa biflora **2.** Magnolia virginiana **3.** Persea palustris

5. Estimated height class of the majority of **SUBCANOPY** using the following scale: ☐ absent ☐ 3-5m ☑ 6-10m ☐ >10m

List 3 dominant **SUBCANOPY** species observed:

1. Nyssa biflora **2.** Magnolia virginiana **3.**

6. SHRUBS % cover: ☐ Absent ☐ 0-1% ☐ 1-5% ☑ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

List 3 dominant **SHRUB** species observed:

1. Lyonia lucida **2.** Clethra alnifolia **3.** Nyssa biflora

7. Estimated height class of the majority of **SHRUBS** using the following scale: ☐ absent ☐ 0-.5m ☑ .6-1.5m ☐ 1.6-3m ☐ Absent

List 3 of the most common **SHRUB** and/or **TREE** seedlings observed:

1. **2.** **3.**

8. GROUNDCOVER % cover of graminoids (grasses, sedges and rushes):

☑ Absent ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

9. TOTAL GROUNDCOVER % cover (including graminiods and forbes):

☐ Absent ☐ 0-1% ☑ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

List 4 dominant **GROUNDCOVER** species observed:

1. Lyonia lucida **2.** Clethra alnifolia

3. **4.**

List 3 of the most common **GROUNDCOVER** seedlings observed:

1. **2.** **3.**

List the **WEEDY** or **RUDERAL** species observed:

1. **2.** **3.**

10. Tree density: ☐ appropriate ☑ inappropriate **Why?:** ☑ too dense ☐ too sparse
11. Tree health: ☐ trees healthy ☑ trees stressed **Why?:** ☑ too dense ☐ too wet

12. Hydrologic indicators: ☑ hydric soils ☐ sediment deposition ☐ algal mat/aufwuchs ☐ aquatic bryotphytes ☐ aquatic plants
☐ rafted debris ☐ elevated lichen lines ☐ aquatic fauna ☐ tussocks/hummocks ☐ secondary flow channels
☐ water stained vegetation/ stain lines ☐ morphological plant adaptations/adventitious roots/buttressed trunks/hypertrophied lenticles

13. Water table: ☐ at the surface ☑ below surface **Standing water:** ☐ present ☑ absent
14. Water color: ☐ tannic ☐ non-tannic/clear ☐ cloudy **If cloudy, why?** ☐ suspended sediments ☐ other:
15. Water column: ☐ sphagnum present ☐ utricularia present
16. Altered hydrology: ☐ soil subsidence / oxidation of muck ☐ exposed roots ☐ abnormal tree fall due to soil subsidence
☐ inappropriate vegetation ☐ lichen lines: ☐ typical ☐ abnormal

List inappropriate vegetation:

1. **2.** **3.**

4. **5.** **6.**

17. Wildlife usage and natural history observations: ☐ footprints ☐ scat ☐ herbivory observed ☑ bird nests/calls ☐ fish observed
☐ animal remains ☐ scratch marks ☐ frog calls ☑ arthropods observed ☐ reptiles observed ☐ mammals observed

Notes on wildlife useage observed:

Red shouldered hawk and monarch butterfly

18. Exotic species: ☐ present ☑ absent

If present **must be georeferenced** and include the following information:

Species: **Location:** **latitude** **longitude**
% cover: ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%
Species: **Location:** **latitude** **longitude**
% cover: ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

19. Notes on the general aspect of the site/techniques to meet restoration goals:
Is natural regeneration occuring? ☐ yes ☐ no **and:** ☐ species appropriate ☑ supplemental planting/seeding needed
Site is/has: ☑ fire suppressed ☐ appropriately managed ☐ secondary growth ☐ planted ☐ clear-cut
If planted: ☐ bedded and planted ☐ not bedded but managed for pine **~Tree age:** ☐ 0-5 yrs ☐ 6-10 yrs ☐ 11-20 yrs ☐ 20+ yrs
Recommendations for restoration: ☑ prescribed burn ☐ mechanical treatment **other:**

Specific notes on restoration, observations, or adaptive management techniques:

Allow fire to burn into ecotone of bayhead as per the mitigation plan.

Site Name: Breakfast Point **Plant community type:** Mesic Pine Flatwoods

Transect ID: BPQT14_P3 **Date and time (am/pm):** 12/21/2004 ☑ AM ☐ PM

1. Weather: ☑ Full Sun ☐ Part Sun ☐ Cloudy ☐ Cloudy and Rain/Fog

2. Temperature: ☐ 20-50 F ☐ 51-70 F ☑ 71-90 F ☐ 91-110 F

3. CANOPY % cover: ☑ Pine Plantation (Rows) ☐ Managed for Pine ☐ Natural Forest

☐ Absent ☐ 0-1% ☐ 1-5% ☑ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

4. Estimated height class of the majority of **TREES** using the following scale: ☐ absent ☐ 3-5m ☑ 6-10m ☐ >10m

List 3 dominant **TREE** species observed in canopy:

1. Pinus elliottii **2.** **3.**

5. Estimated height class of the majority of **SUBCANOPY** using the following scale: ☐ absent ☑ 3-5m ☐ 6-10m ☐ >10m

List 3 dominant **SUBCANOPY** species observed:

1. Cliftonia monophylla **2.** Magnolia virginiana **3.**

6. SHRUBS % cover: ☐ Absent ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☑ 51-75% ☐ 76-100%

List 3 dominant **SHRUB** species observed:

1. Cliftonia monophylla **2.** Clethera spp **3.** Ilex glabra

7. Estimated height class of the majority of **SHRUBS** using the following scale: ☐ absent ☐ 0-.5m ☑ .6-1.5m ☐ 1.6-3m

List 3 of the most common **SHRUB** and/or **TREE** seedlings observed:

1. **2.** **3.**

8. GROUNDCOVER % cover of graminoids (grasses, sedges and rushes):

☑ Absent ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

9. TOTAL GROUNDCOVER % cover (including graminiods and forbes):

☐ Absent ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☑ 51-75% ☐ 76-100%

List 4 dominant **GROUNDCOVER** species observed:

1. serenoa repens **2.** Clethra alnifolia

3. Ilex glabra **4.** Cliftonia monophylla

List 3 of the most common **GROUNDCOVER** seedlings observed:

1. **2.** **3.**

List the **WEEDY** or **RUDERAL** species observed:

1. **2.** **3.**

10. Tree density: ☐ appropriate ☑ inappropriate **Why?:** ☑ too dense ☐ too sparse
11. Tree health: ☐ trees healthy ☑ trees stressed **Why?:** ☑ too dense ☐ too wet

12. Hydrologic indicators: ☐ hydric soils ☐ sediment deposition ☐ algal mat/aufwuchs ☐ aquatic bryotphytes ☐ aquatic plants
☐ rafted debris ☐ elevated lichen lines ☐ aquatic fauna ☐ tussocks/hummocks ☐ secondary flow channels
☐ water stained vegetation/ stain lines ☐ morphological plant adaptations/adventitious roots/buttressed trunks/hypertrophied lenticles

13. Water table: ☐ at the surface ☐ below surface **Standing water:** ☐ present ☑ absent
14. Water color: ☐ tannic ☐ non-tannic/clear ☐ cloudy **If cloudy, why?** ☐ suspended sediments ☐ other:
15. Water column: ☐ sphagnum present ☐ utricularia present
16. Altered hydrology: ☐ soil subsidence / oxidation of muck ☐ exposed roots ☐ abnormal tree fall due to soil subsidence
☐ inappropriate vegetation ☐ lichen lines: ☐ typical ☐ abnormal

List inappropriate vegetation:

1. **2.** **3.**

4. **5.** **6.**

17. Wildlife usage and natural history observations: ☐ footprints ☐ scat ☐ herbivory observed ☐ bird nests/calls ☐ fish observed
☐ animal remains ☐ scratch marks ☐ frog calls ☑ arthropods observed ☐ reptiles observed ☐ mammals observed

Notes on wildlife useage observed:

lady bug

18. Exotic species: ☐ present ☑ absent

If present **must be georeferenced** and include the following information:

Species: **Location:** **latitude** **longitude**
% cover: ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%
Species: **Location:** **latitude** **longitude**
% cover: ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

19. Notes on the general aspect of the site/techniques to meet restoration goals:
Is natural regeneration occuring? ☐ yes ☐ no **and:** ☐ species appropriate ☑ supplemental planting/seeding needed
Site is/has: ☑ fire suppressed ☐ appropriately managed ☐ secondary growth ☑ planted ☐ clear-cut
If planted: ☑ bedded and planted ☐ not bedded but managed for pine **~Tree age:** ☐ 0-5 yrs ☐ 6-10 yrs ☐ 11-20 yrs ☐ 20+ yrs
Recommendations for restoration: ☑ prescribed burn ☑ mechanical treatment **other:**

Specific notes on restoration, observations, or adaptive management techniques:

Canopy reduction and prescribed burning as per the mitigation plan.

Site Name: Breakfast Point **Plant community type:** Hydric Pine Flatwoods

Transect ID: BPQT15_P1 **Date and time (am/pm):** 12/21/2004 ☐ AM ☑ PM

1. Weather: ☑ Full Sun ☐ Part Sun ☐ Cloudy ☐ Cloudy and Rain/Fog

2. Temperature: ☐ 20-50 F ☐ 51-70 F ☑ 71-90 F ☐ 91-110 F

3. CANOPY % cover: ☐ Pine Plantation (Rows) ☐ Managed for Pine ☐ Natural Forest

☐ Absent ☑ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

4. Estimated height class of the majority of **TREES** using the following scale: ☐ absent ☐ 3-5m ☑ 6-10m ☐ >10m

List 3 dominant **TREE** species observed in canopy:

1. Pinus elliottii **2.** **3.**

5. Estimated height class of the majority of **SUBCANOPY** using the following scale: ☐ absent ☐ 3-5m ☑ 6-10m ☐ >10m

List 3 dominant **SUBCANOPY** species observed:

1. Pinus elliottii **2.** Magnolia virginiana **3.** Nyssa biflora

6. SHRUBS % cover: ☐ Absent ☐ 0-1% ☐ 1-5% ☐ 6-25% ☑ 26-50% ☐ 51-75% ☐ 76-100%

List 3 dominant **SHRUB** species observed:

1. Ilex glabra **2.** Nyssa biflora **3.** Magnolia virginiana

7. Estimated height class of the majority of **SHRUBS** using the following scale: ☐ absent ☐ 0-.5m ☑ .6-1.5m ☐ 1.6-3m

List 3 of the most common **SHRUB** and/or **TREE** seedlings observed:

1. **2.** **3.**

8. GROUNDCOVER % cover of graminoids (grasses, sedges and rushes):

☐ Absent ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☑ 51-75% ☐ 76-100%

9. TOTAL GROUNDCOVER % cover (including graminiods and forbes):

☐ Absent ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☑ 51-75% ☐ 76-100%

List 4 dominant **GROUNDCOVER** species observed:

1. Andropogon **2.** Juncus roemarianus

3. Anthaenanthia rufa **4.** Aristida stricta

List 3 of the most common **GROUNDCOVER** seedlings observed:

1. **2.** **3.**

List the **WEEDY** or **RUDERAL** species observed:

1. **2.** **3.**

10. Tree density: ☐ appropriate ☑ inappropriate **Why?:** ☑ too dense ☐ too sparse
11. Tree health: ☐ trees healthy ☑ trees stressed **Why?:** ☐ too dense ☑ too wet

12. Hydrologic indicators: ☑ hydric soils ☐ sediment deposition ☐ algal mat/aufwuchs ☐ aquatic bryotphytes ☐ aquatic plants
☐ rafted debris ☐ elevated lichen lines ☐ aquatic fauna ☑ tussocks/hummocks ☐ secondary flow channels
☐ water stained vegetation/ stain lines ☐ morphological plant adaptations/adventitious roots/buttressed trunks/hypertrophied lenticles

13. Water table: ☑ at the surface ☐ below surface **Standing water:** ☑ present ☐ absent
14. Water color: ☑ tannic ☐ non-tannic/clear ☐ cloudy **If cloudy, why?** ☐ suspended sediments ☐ other:
15. Water column: ☐ sphagnum present ☐ utricularia present
16. Altered hydrology: ☐ soil subsidence / oxidation of muck ☐ exposed roots ☐ abnormal tree fall due to soil subsidence
☐ inappropriate vegetation ☐ lichen lines: ☐ typical ☐ abnormal

List inappropriate vegetation:

1. **2.** **3.**

4. **5.** **6.**

17. Wildlife usage and natural history observations: ☑ footprints ☐ scat ☐ herbivory observed ☑ bird nests/calls ☐ fish observed
☐ animal remains ☐ scratch marks ☑ frog calls ☑ arthropods observed ☐ reptiles observed ☐ mammals observed

Notes on wildlife useage observed:

Ferral hog rutting, turkey vulture observed, crickets and mosquitos

18. Exotic species: ☐ present ☑ absent

If present **must be georeferenced** and include the following information:

Species: **Location:** **latitude** **longitude**
% cover: ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

Species: **Location:** **latitude** **longitude**
% cover: ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

19. Notes on the general aspect of the site/techniques to meet restoration goals:

Is natural regeneration occuring? ☐ yes ☐ no **and:** ☐ species appropriate ☐ supplemental planting/seeding needed
Site is/has: ☑ fire suppressed ☐ appropriately managed ☐ secondary growth ☐ planted ☐ clear-cut
If planted: ☐ bedded and planted ☐ not bedded but managed for pine **~Tree age:** ☐ 0-5 yrs ☐ 6-10 yrs ☐ 11-20 yrs ☐ 20+ yrs
Recommendations for restoration: ☐ prescribed burn ☑ mechanical treatment **other:**

Specific notes on restoration, observations, or adaptive management techniques:

Canopy reduction and prescribed burn as per the mitigation plan.

Site Name: Breakfast Point **Plant community type:** Hydric Pine Flatwoods

Transect ID: BPQT15_P2 **Date and time (am/pm):** 12/21/2004 ☐ AM ☑ PM

1. Weather: ☑ Full Sun ☐ Part Sun ☐ Cloudy ☐ Cloudy and Rain/Fog

2. Temperature: ☐ 20-50 F ☐ 51-70 F ☑ 71-90 F ☐ 91-110 F

3. CANOPY % cover: ☐ Pine Plantation (Rows) ☐ Managed for Pine ☐ Natural Forest

☐ Absent ☐ 0-1% ☐ 1-5% ☑ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

4. Estimated height class of the majority of **TREES** using the following scale: ☐ absent ☐ 3-5m ☑ 6-10m ☐ >10m

List 3 dominant **TREE** species observed in canopy:

1. Pinus elliottii **2.** **3.**

5. Estimated height class of the majority of **SUBCANOPY** using the following scale: ☐ absent ☐ 3-5m ☑ 6-10m ☐ >10m

List 3 dominant **SUBCANOPY** species observed:

1. Pinus elliottii **2.** **3.**

6. SHRUBS % cover: ☐ Absent ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☑ 51-75% ☐ 76-100%

List 3 dominant **SHRUB** species observed:

1. Ilex glabra **2.** Ilex myrtifolia **3.** Hypericum chapmanii

7. Estimated height class of the majority of **SHRUBS** using the following scale: ☐ absent ☐ 0-.5m ☑ .6-1.5m ☐ 1.6-3m

List 3 of the most common **SHRUB** and/or **TREE** seedlings observed:

1. **2.** **3.**

8. GROUNDCOVER % cover of graminoids (grasses, sedges and rushes):

☐ Absent ☐ 0-1% ☐ 1-5% ☑ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

9. TOTAL GROUNDCOVER % cover (including graminiods and forbes):

☐ Absent ☐ 0-1% ☐ 1-5% ☑ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

List 4 dominant **GROUNDCOVER** species observed:

1. Aristida stricta **2.** Rhynchospora inundata

3. Eriocaulon spp **4.** Lacnanthes spp

List 3 of the most common **GROUNDCOVER** seedlings observed:

1. **2.** **3.**

List the **WEEDY** or **RUDERAL** species observed:

1. **2.** **3.**

10. Tree density: ☐ appropriate ☑ inappropriate **Why?:** ☑ too dense ☐ too sparse
11. Tree health: ☐ trees healthy ☑ trees stressed **Why?:** ☑ too dense ☐ too wet

12. Hydrologic indicators: ☑ hydric soils ☐ sediment deposition ☐ algal mat/aufwuchs ☐ aquatic bryotphytes ☐ aquatic plants
☐ rafted debris ☐ elevated lichen lines ☐ aquatic fauna ☑ tussocks/hummocks ☐ secondary flow channels
☐ water stained vegetation/ stain lines ☐ morphological plant adaptations/adventitious roots/buttressed trunks/hypertrophied lenticles

13. Water table: ☐ at the surface ☑ below surface **Standing water:** ☐ present ☑ absent
14. Water color: ☐ tannic ☐ non-tannic/clear ☐ cloudy **If cloudy, why?** ☐ suspended sediments ☐ other:
15. Water column: ☐ sphagnum present ☐ utricularia present
16. Altered hydrology: ☐ soil subsidence / oxidation of muck ☐ exposed roots ☐ abnormal tree fall due to soil subsidence
☐ inappropriate vegetation ☐ lichen lines: ☐ typical ☐ abnormal

List inappropriate vegetation:

1. **2.** **3.**

4. **5.** **6.**

17. Wildlife usage and natural history observations: ☐ footprints ☐ scat ☐ herbivory observed ☑ bird nests/calls ☐ fish observed
☐ animal remains ☐ scratch marks ☐ frog calls ☑ arthropods observed ☐ reptiles observed ☐ mammals observed

Notes on wildlife useage observed:

mocking bird, turkey vulture, crickets, and butterfly observed

18. Exotic species: ☐ present ☑ absent

If present **must be georeferenced** and include the following information:

Species: **Location:** **latitude** **longitude**
% cover: ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%
Species: **Location:** **latitude** **longitude**
% cover: ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

19. Notes on the general aspect of the site/techniques to meet restoration goals:

Is natural regeneration occuring? ☐ yes ☐ no **and:** ☐ species appropriate ☑ supplemental planting/seeding needed
Site is/has: ☑ fire suppressed ☐ appropriately managed ☐ secondary growth ☐ planted ☐ clear-cut
If planted: ☑ bedded and planted ☐ not bedded but managed for pine **~Tree age:** ☐ 0-5 yrs ☐ 6-10 yrs ☐ 11-20 yrs ☐ 20+ yrs
Recommendations for restoration: ☐ prescribed burn ☑ mechanical treatment **other:**

Specific notes on restoration, observations, or adaptive management techniques:

Canopy reduction and prescribed burn as per the mitigation plan.

Site Name: Breakfast Point **Plant community type:** Cypress Flat

Transect ID: BPQT15_P3 **Date and time (am/pm):** 12/21/2004 ☑ AM ☐ PM

1. Weather: ☑ Full Sun ☐ Part Sun ☐ Cloudy ☐ Cloudy and Rain/Fog

2. Temperature: ☐ 20-50 F ☑ 51-70 F ☐ 71-90 F ☐ 91-110 F

3. CANOPY % cover: ☐ Pine Plantation (Rows) ☑ Managed for Pine ☐ Natural Forest

☐ Absent ☐ 0-1% ☐ 1-5% ☐ 6-25% ☑ 26-50% ☐ 51-75% ☐ 76-100%

4. Estimated height class of the majority of **TREES** using the following scale: ☐ absent ☑ 3-5m ☐ 6-10m ☐ >10m

List 3 dominant **TREE** species observed in canopy:

1. Pinus elliottii **2.** Taxodium ascendens **3.** Magnolia virginiana

5. Estimated height class of the majority of **SUBCANOPY** using the following scale: ☐ absent ☑ 3-5m ☐ 6-10m ☐ >10m

List 3 dominant **SUBCANOPY** species observed:

1. Nyssa ursina **2.** Taxodium ascendens **3.**

6. SHRUBS % cover: ☐ Absent ☐ 0-1% ☐ 1-5% ☐ 6-25% ☑ 26-50% ☐ 51-75% ☐ 76-100%

List 3 dominant **SHRUB** species observed:

1. Myrica heterophylla **2.** Nyssa ursina **3.** Ilex myrtifolia

7. Estimated height class of the majority of **SHRUBS** using the following scale: ☐ absent ☐ 0-.5m ☐ .6-1.5m ☑ 1.6-3m

List 3 of the most common **SHRUB** and/or **TREE** seedlings observed:

1. Pinus elliottii **2.** Taxodium ascendens **3.** Nyssa sylvatica v. ursina

8. GROUNDCOVER % cover of graminoids (grasses, sedges and rushes):

☐ Absent ☐ 0-1% ☐ 1-5% ☐ 6-25% ☑ 26-50% ☐ 51-75% ☐ 76-100%

9. TOTAL GROUNDCOVER % cover (including graminiods and forbes):

☐ Absent ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☑ 51-75% ☐ 76-100%

List 4 dominant **GROUNDCOVER** species observed:

1. Aristida stricta **2.** Juncus roemarianus

3. Hypericum sp. **4.** Erianthus giganteus

List 3 of the most common **GROUNDCOVER** seedlings observed:

1. **2.** **3.**

List the **WEEDY** or **RUDERAL** species observed:

1. Andropogon sp. **2.** **3.**

10. Tree density: ☐ appropriate ☑ inappropriate **Why?:** ☑ too dense ☐ too sparse
11. Tree health: ☐ trees healthy ☑ trees stressed **Why?:** ☑ too dense ☑ too wet

12. Hydrologic indicators: ☑ hydric soils ☐ sediment deposition ☐ algal mat/aufwuchs ☐ aquatic bryotphytes ☐ aquatic plants
☐ rafted debris ☐ elevated lichen lines ☐ aquatic fauna ☑ tussocks/hummocks ☐ secondary flow channels
☑ water stained vegetation/ stain lines ☑ morphological plant adaptations/adventitious roots/buttressed trunks/hypertrophied lenticles

13. Water table: ☑ at the surface ☐ below surface **Standing water:** ☑ present ☐ absent
14. Water color: ☑ tannic ☐ non-tannic/clear ☐ cloudy **If cloudy, why?** ☐ suspended sediments ☐ other:
15. Water column: ☑ sphagnum present ☐ utricularia present
16. Altered hydrology: ☑ soil subsidence / oxidation of muck ☐ exposed roots ☐ abnormal tree fall due to soil subsidence
☐ inappropriate vegetation ☐ lichen lines: ☐ typical ☐ abnormal

List inappropriate vegetation:

1. Pinus elliottii **2.** **3.**
4. **5.** **6.**

17. Wildlife usage and natural history observations: ☐ footprints ☐ scat ☐ herbivory observed ☐ bird nests/calls ☑ fish observed
☐ animal remains ☐ scratch marks ☑ frog calls ☐ arthropods observed ☐ reptiles observed ☐ mammals observed

Notes on wildlife useage observed:

Florida Cricket Frog (Acris gryllus dorsalis), mosquito fish (Gambusia affinis).

18. Exotic species: ☐ present ☑ absent

If present **must be georeferenced** and include the following information:

Species: **Location:** **latitude** **longitude**
% cover: ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%
Species: **Location:** **latitude** **longitude**
% cover: ☐ 0-1% ☐ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

19. Notes on the general aspect of the site/techniques to meet restoration goals:

Is natural regeneration occuring? ☐ yes ☑ no **and:** ☐ species appropriate ☐ supplemental planting/seeding needed
Site is/has: ☑ fire suppressed ☐ appropriately managed ☑ secondary growth ☐ planted ☐ clear-cut
If planted: ☑ bedded and planted ☐ not bedded but managed for pine **~Tree age:** ☐ 0-5 yrs ☐ 6-10 yrs ☑ 11-20 yrs ☐ 20+ yrs
Recommendations for restoration: ☑ prescribed burn ☐ mechanical treatment **other:**

Specific notes on restoration, observations, or adaptive management techniques:

Contains wet prairie species such as Verbesina chapmanii and Sarracenia flava. Site is very fire suppressed and has been planted in slash pine. A reduction of slash pine canopy is recommended to allow the pond cypress to reproduce and light to reach the groundcover. Prescribed warm season burn recommended and pine canopy reduction recommended as per the mitigation plan.

Breakfast Point Mitigation Bank – Phase 1 Quantitative Photographs

Breakfast Point Phase 1 Transect 1
Mixed Forested Wetland (BP1T1 MFW)

Breakfast Point Phase 1 Transect 2
Cypress Flats (BP1T2 CF)

Breakfast Point Phase 1 Transect 3
Mesic Pine Flatwoods (BP1T3 MPF)

Breakfast Point Phase 1 Transect 4
Hydric Pine Flatwoods (BP1T4 HPF)

Breakfast Point Phase 1 Transect 5
Mesic Pine Flatwoods (BP1T5 MPF)

Breakfast Point Mitigation Bank – Phase 1 & 2 Quantitative Photographs

Breakfast Point Phase 1 Transect 6
Cypress Flats (BP1T6 CF)

Breakfast Point Phase 1 Transect 7
Cypress Flats (BP1T7 CF)

Breakfast Point Phase 1 Transect 8
Hydric Pine Flatwoods (BP1T8 HPF)

Breakfast Point Phase 2 Transect 1
Mesic Pine Flatwoods (BP2T1 MPF)

Breakfast Point Phase 2 Transect 2
Cypress Flats (BP2T2 HPF)

Breakfast Point Mitigation Bank – Phase 2 Quantitative Photographs

Breakfast Point Phase 2 Transect 3
Mesic Pine Flatwoods (BP2T3 MPF)

Breakfast Point Phase 2 Transect 4
Cypress Flats (BP2T4 CF)

Breakfast Point Phase 2 Transect 5
Hydric Pine Flatwoods (BP2T5 HPF)

Breakfast Point Phase 2 Transect 6
Mesic Pine Flatwoods (BP2T6 MPF)

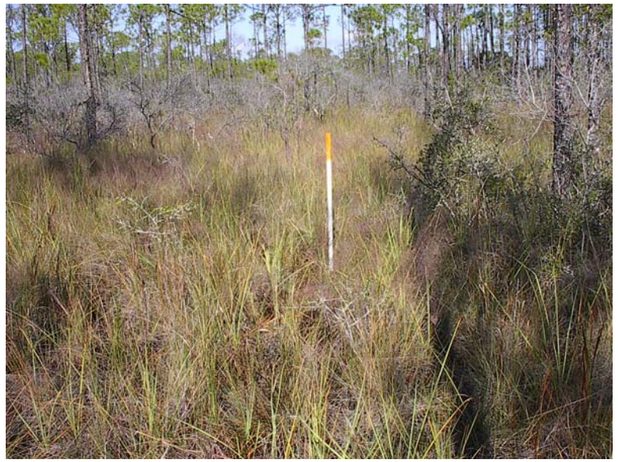
Breakfast Point Phase 2 Transect 7
Cypress Flats (BP2T7 CF)

Breakfast Point Mitigation Bank – Phase 2 Quantitative Photographs

Breakfast Point Phase 2 Transect 8
Hydric Pine Flatwoods (BP2T8 HPF)

Breakfast Point Phase 2 Transect 9
Mesic Pine Flatwoods (BP2T9 MPF)

Breakfast Point Mitigation Bank
Qualitative Photographs



Breakfast Point Transect 1 Reference Point 1
Hydric Pine Flatwoods (BPQT1 P1 HPF)

Breakfast Point Transect 2 Reference Point 1
Hydric Pine Flatwoods (BPQT2 P1 HPF)

Breakfast Point Transect 1 Reference Point 2
Mesic Pine Flatwoods (BPQT1 P2 MPF)

Breakfast Point Transect 2 Reference Point 2
Mesic Pine Flatwoods (BPQT2 P2 MPF)

Breakfast Point Transect 2 Reference Point 3
Hydric Pine Flatwoods (BPQT2 P3 HPF)

Breakfast Point Mitigation Bank
Qualitative Photographs

Breakfast Point Transect 3 Reference Point 1
Mesic Pine Flatwoods (BPQT3 P1 MPF)

Breakfast Point Transect 3 Reference Point 2
Hydric Pine Flatwoods (BPQT3 P2 HPF)

Breakfast Point Transect 3 Reference Point 3
Hydric Pine Flatwoods (BPQT3 P3 HPF)

Breakfast Point Transect 3 Reference Point 4
Mesic Pine Flatwoods (BPQT3 P4 MPF)

Breakfast Point Transect 4 Reference Point 1
Cypress Flats (BPQT4 P1 CF)

Breakfast Point Mitigation Bank
Qualitative Photographs

Breakfast Point Transect 4 Reference Point 2
Mixed Forested Wetland (BPQT4 P2 MFW)

Breakfast Point Transect 4 Reference Point 3
Mixed Forested Wetland (BPQT4 P3 MFW)

Breakfast Point Transect 4 Reference Point 4
Hydric Pine Flatwoods (BPQT4 P4 HPF)

Breakfast Point Transect 4 Reference Point 5
Cypress Flats (BPQT4 P5 CF)

Breakfast Point Transect 5 Reference Point 1
Cypress Flats (BPQT5 P1 CF)

Breakfast Point Mitigation Bank
Qualitative Photographs

Breakfast Point Transect 5 Reference Point 2
Hydric Pine Flatwoods (BPQT5 P2 HPF)

Breakfast Point Transect 6 Reference Point 1
Mesic Pine Flatwoods (BPQT6 P1 MPF)

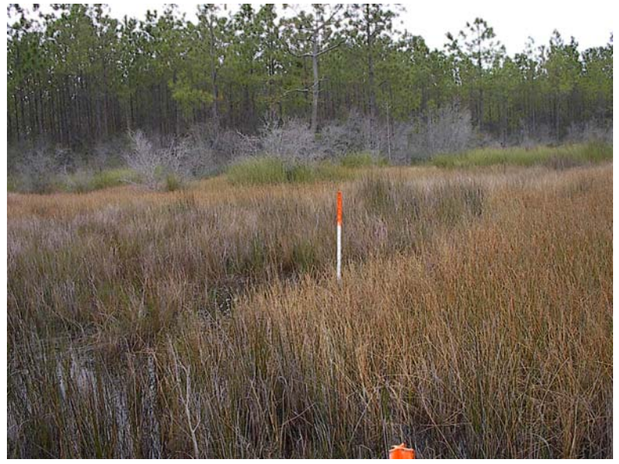
Breakfast Point Transect 6 Reference Point 2
Palustrine Marsh (BPQT6 P2 PM)

Breakfast Point Transect 7 Reference Point 1
Cypress Flats (BPQT7 P1 CF)

Breakfast Point Transect 7 Reference Point 2
Hydric Pine Flatwoods (BPQT7 P2 HPF)

Breakfast Point Mitigation Bank
Qualitative Photographs

Breakfast Point Transect 8 Reference Point 1
Mesic Pine Flatwoods (BPQT8 P1 MPF)



Breakfast Point Transect 8 Reference Point 2
Palustrine Marsh (BPQT8 P2 PM)

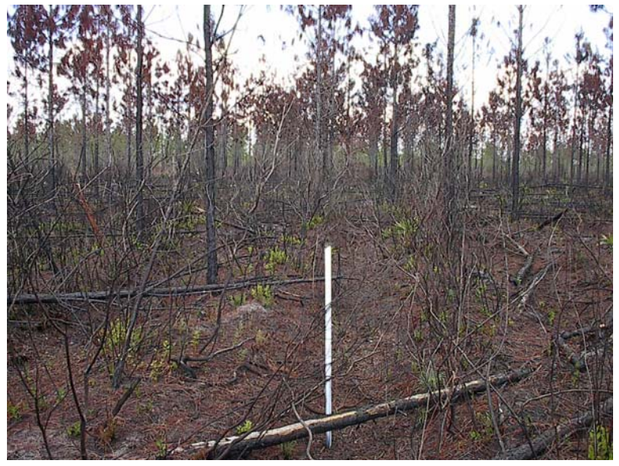
Breakfast Point Transect 9 Reference Point 1
Palustrine Marsh (BPQT9 P1 PM)

Breakfast Point Transect 9 Reference Point 2
Hydric Pine Flatwoods (BPQT9 P2 HPF)

Breakfast Point Transect 10 Reference Point 1
Hydric Pine Flatwoods (BPQT10 P1 HPF)

Breakfast Point Mitigation Bank
Qualitative Photographs

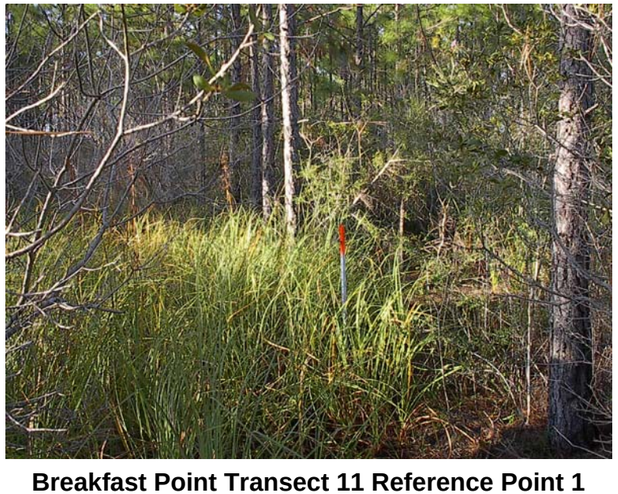
Breakfast Point Transect 10 Reference Point 2
Mesic Pine Flatwoods (BPQT10 P2 MPF)



Breakfast Point Transect 10 Reference Point 3
Cypress Flats (BPQT10 P3 CF)

Breakfast Point Transect 10 Reference Point 4
Hydric Pine Flatwoods (BPQT0 P4 HPF)

Breakfast Point Transect 10 Reference Point 5
Cypress Flats (BPQT10 P5 CF)



Breakfast Point Transect 11 Reference Point 1
Mesic Pine Flatwoods (BPQT11 P1 MPF)

Breakfast Point Mitigation Bank
Qualitative Photographs

Breakfast Point Transect 11 Reference Point 2
Hydric Pine Flatwoods (BPQT11 P2 HPF)

Breakfast Point Transect 12 Reference Point 1
Mesic Pine Flatwoods (BPQT12 P1 MPF)

Breakfast Point Transect 12 Reference Point 2
Hydric Pine Flatwoods (BPQT12 P2 HPF)

Breakfast Point Transect 13 Reference Point 1
Mesic Pine Flatwoods (BPQT13 P1 MPF)

Breakfast Point Transect 13 Reference Point 2
Mixed Forested Wetland (BPQT13 P2 MFW)

Breakfast Point Mitigation Bank
Qualitative Photographs

Breakfast Point Transect 13 Reference Point 3
Hydric Pine Flatwoods (BPQT13 P3 HPF)

Breakfast Point Transect 14 Reference Point 1
Mesic Pine Flatwoods (BPQT14 P1 MPF)

Breakfast Point Transect 14 Reference Point 2
Cypress Flats (BPQT14 P2 CF)

Breakfast Point Transect 14 Reference Point 3
Hydric Pine Flatwoods (BPQT14 P3 HPF)

Breakfast Point Transect 15 Reference Point 1
Hydric Pine Flatwoods (BPQT15 P1 HPF)

Breakfast Point Mitigation Bank
Qualitative Photographs

Breakfast Point Transect 15 Reference Point 2
Hydric Pine Flatwoods (BPQT15 P2 HPF)

Breakfast Point Transect 15 Reference Point 3
Cypress Flats (BPQT15 P3 CF)

Year 2006 Semi-annual Progress Report
July 2006
Breakfast Point Mitigation Bank
Bay County, Florida
Prepared for:
Breakfast Point Mitigation Bank,
St. Joe Company

Submitted to:

The Florida Department of Environmental Protection
Mitigation Bank Instrument Number 0227473-001

U.S. Army Corps of Engineers
Mitigation Bank Instrument Number SAJ-2004-1865

U.S. Fish and Wildlife Service

U.S. Environmental Protection Agency, Region IV

St. Joe Company

Prepared by Ecological Resource Consultants, Inc.
410B East 6th Avenue
Tallahassee, Florida 32303

I. Introduction

A. Purpose

This bi-annual progress report summarizes the activities that have occurred at the Breakfast Point Mitigation Bank (BPMB) since the annual progress report of January 2006. Semi-annual progress reports are requirements as per the mitigation bank instrument. The outline for the progress reports is contained the monitoring provisions of the instrument. All information below concerns all activities that have taken place at the BPMB between February 1, 2006 and June 31, 2006.

II. Progress Report

A. Itemized checklist of requested information as per the BPMB instrument.

1. Date permitted activities were begun or anticipated to begin.
2. Brief description and extent of work completed since the previous report.
3. Copies of permit drawings indicating areas where work has been completed.
4. A description of problems encountered and solutions undertaken.
5. A brief description of the work and/or site management the Sponsor anticipates commencing, continuing or completing in the next six months.

B. Summary of itemized checklist.

1. Permitted activities

    a. No prescribed burning activities were conducted at the BPMB in the period of this report. This is due to extremely dry and hot weather that occurred throughout the spring. The Florida Division of Forestry does not issue burn permits during these conditions. Also, Bay County enacted a 90 day burn ban effective June 6, 2006. Phase 1 and 2 were mechanically treated in preparation for proposed prescribed fire scheduled for summer 2006. This is per the MBI permit III.G, the compensatory mitigation plan Section 6 restoration implementation and Attachment A-2. See attached *Emergency Ban on Burning*, by order of the Bay County Board of County Commissioners, June 6, 2006.

2. Brief description and extent of work completed since the previous report
   All work completed within this section, is per the MBI permit community requirements IV.E.2.a, the compensatory mitigation plan Section 6 restoration implementation and Table A-4 (pg 21).

   a. Walk down of planted slash pines in Phase 1. Planted pines were walked down in all polygons requiring canopy reduction of Phase 1 as part of mechanical reduction of canopy to the appropriate density in Phase 1 between 1 May and 25 May 2006. The walk down was completed in areas where the pines were too large for roller chopping and too small for harvesting with a conventional logging crew. This activity was carried out in order to thin the canopy and to prepare Phase 1 for a prescribed burn. *See*, Exhibit 1.

   b. Walk down of planted slash pines in Phase 2. Planted pines were walked down in required areas of Phase 2 as part of mechanical reduction of canopy to a more appropriate density in Phase 2 and the north edge of Botheration Bayou between 20 April and 30 April 2006. The canopy pines were non-merchantable and were too large to be roller chopped. This activity occurred in order to have a more complete prescribed burn and allow for safer burning along the boundary of the mitigation bank. *See*, Exhibit 2.

   c. Roller chopping of planted slash pines in Phase 1. Selected slash pines were chopped in polygons where the timber was only several years old. Planted pines small enough to be roller chopped in Phase 1 were roller chopped between 1 May and 10 May 2006. *See*, Exhibit 1.

   d. Gyro-Trac of the groundcover in Phase 1. An active Bald Eagle (*Haliaeetus leucocephalus)* nest is located within a mixed forested wetland in Phase 1. The average age of the canopy is over 100 yrs old. The understory within the mixed forested wetland is extremely thick and heavy with an average height of 12-18 feet. This activity was two-fold, first to reduce understory and likelihood of a catastrophic crown fire along the southern boundary. Second, to reduce fire suppressed vegetation adjacent to the eagle nest in an effort to reduce stress on the nest tree, i.e. insure nest tree is kept alive and the nest secured for the future. Note: all clearing of underbrush outside of the 750' management zone was done after the eagle nesting season (late May, June). No work of this type was performed within 750' of the nest tree. Management of active Bald Eagle nest followed the "Habitat Management Guidelines for the Bald Eagle in the Southeast Region" Third Revision, 1987. U.S. Fish and Wildlife Service. *See*, Exhibit 1.

3. All timber activities were monitored by ERC, Inc. staff and BMPs were followed throughout the BPMB as per the MBI permit Maintenance and monitoring of the

bank V.A.1. In areas where the timber was harvested the canopy reduction was combined with mechanical vegetation reduction of fire suppressed understory hardwoods. This was accomplished by knocking over the fire suppressed subcanopy and shrub strata during the timber operations. This woody material and pine slash is now dry and closer to the ground where it will have a greater likelihood of being incinerated when these areas are prescribed burned in 2006. This is per the MBI permit establishment of the bank III.F and community requirements IV.E.2.a, the compensatory mitigation plan Section 6 restoration implementation and Table A-4 (pg 21).

4. Weather related postponement of prescribed burns has been and continues to be a significant issue. Due to dry and hot weather, The Florida Division of Forestry did not permit any prescribed burning after April 2006. Bay County also enacted a 90 day county wide burn ban beginning June 6, 2006, see referenced attachment in B.1.a, above. Weather permitting, the burn ban should be lifted August 2006. Proactive adaptive management has been discussed with the MBRT and areas that were scheduled to be burned in 2005 will be burned in 2006. In addition we have used mechanical means to further prepare areas scheduled to be prescribed burned in 2006. This is per the MBI permit III.G, the compensatory mitigation plan Section 6 restoration implementation and Attachment A-2.

5. The following is a brief description of the work and/or site management the sponsor anticipates commencing, continuing or completing in the next six months.

    a. Qualitative and quantitative vegetative monitoring transects in Phases 1 and 2 of the BPMB will be sampled in the Fall of 2006, assuming that weather and permit conditions allow for scheduled prescribed burns. This activity is per the MBI permit Maintenance and monitoring of the bank V.B, and the compensatory mitigation plan Attachment A-8.

    b. When torpedo grass or any other invasive exotic growth resumes during the growing season of 2006, the areas and species will be treated with the appropriate herbicide. This activity is per the compensatory mitigation plan Section 6 restoration implementation.

    c. Additional timber harvesting is scheduled for Phase 2 when appropriate conditions allow silvicultural activities to occur. Weather permitting, the plan is to resume timber harvesting on the BPMB during the remainder of 2006. This activity is per the MBI permit establishment of the bank III. F and community requirements IV.E.2.a, the compensatory mitigation plan Section 6 restoration implementation and Table A-4 (pg 21).

    d. Phases 1 and 2 are scheduled to be prescribed burned during the growing season of 2006, weather permitting. This activity is per the MBI permit III.G,

the compensatory mitigation plan Section 6 restoration implementation and Attachment A-2.

e. Photographic reference of burn units is planned immediately after scheduled prescribed fires in phases 1 and 2. This activity is per the MBI permit establishment of the bank section III. G.

Semi-annual Progress Report

December, 2006

Breakfast Point Mitigation Bank
Bay County, Florida

Submitted to:

The Florida Department of Environmental Protection
Mitigation Bank Instrument Number 0227473-001

U.S. Army Corps of Engineers
Mitigation Bank Instrument Number SAJ-2004-1865

U.S. Fish and Wildlife Service

U.S. Environmental Protection Agency, Region IV

St. Joe Company

Prepared by:

Ecological Resource Consultants, Inc.
410B East 6th Avenue
Tallahassee, Florida 32303

Purpose

This semiannual progress report summarizes restoration and maintenance activities at the Breakfast Point Mitigation Bank (BPMB) between July 1, 2006 and December 31, 2006 (since the last semiannual report). Semi-annual progress reports are requirements as per the Mitigation Bank Instrument (MBI), and this document responds specifically to the information requests in that instrument.

Restoration and Management Activities

Activities completed or pending are discussed below for each Phase, and as per the Breakfast Point Mitigation Bank / MBI (2005, Section MBI Permit, p. 15). Each information request in the MBI is restated in bold and followed by a response. Permitted activities are recorded chronological order, as indicated.

a. Date permitted activities were begun or anticipated to begin.

Dates are included with each completed and anticipated activity below.

b . Brief description and extent of work completed since the previous report.

Each activity is discussed in chronological order, and includes reference to the applicable section(s) of the MBI Permit.

July, 2006: Herbicide application to invasive exotic plants was conducted (MBI Permit, Section V.A.2.b.).

July – December, 2006: 101 feral hogs were removed (MBI Permit, Sectin V.A.2.c.).

September, 2006: Conducted prescribed burns in Phases 1 and 2. Further burns are necessary to complete fire management for Phase 2 (MBI Permit, Section V.A.2.a.; Section III.G.; Attachment A-1: Compensatory Mitigation Plan: Attachment A-2: Fire Management Plan).

September - October, 2006: Photographic references of burn units were recorded immediately after prescribed fires in Phase 1 (MBI Permit, Section III. G.)

October, 2006: Qualitative and quantitative vegetative monitoring transects in Phases 1 and 2 of the BPMB were sampled (MBI Permit, Part V.B.; Attachment A-1: Compensatory Mitigation Plan).

July-December, 2006: Hydrological Improvement / Assessment Activities. Nine (9) permanent groundwater monitoring wells, four (4) surface water wells and one (1) precipitation gauge collected near-continuous hydrologic data.

c. Copies of permit drawings indicating areas where work has been completed.
None.

d. A description of problems encountered and solutions undertaken.

An early summer burn ban delayed prescribed burning in phase 1. Prescribed burning resumed in September 2006 when conditions allowed.

e. A brief description of the work and/or site management the Sponsor anticipates commencing, continuing or completing in the next six months.

Additional timber harvesting is scheduled for Phase 2 as appropriate conditions allow. Timber harvesting will resume on the BPMB during 2007 with appropriate weather (MBI Permit, Section III.F; Section IV.E.2.a.;Table A-4, p. 21).

Phase 2 is also scheduled for a prescription burn during the growing season of 2007 (as per MBI Permit, Section III.G; Attachment A-1: Compensatory Mitigation Plan; Attachment A-2: Fire Management Plan).

Photographic reference of burn units is planned immediately after scheduled prescribed fires (MBI Permit Section III. G).

Continued hydrologic assessment activities are planned until 2008.

SN 4461 FC5400-15 ATTACHMENT 2A

ST JOE Timberland Company

FLORIDA

USE FIRE WISELY

District: Chipola District Authorization # : 100053

Landowner: St. Joe Timberland Company Address: 14500 School Drive, Panama City Beach, Florida 32413

Telephone #: 850.234-2204 Sections: 12, 13,14, 24 T: 3S R: 16W County: Bay
850.227-4352 cell and 7, 8, 17, 18, 19, 20 T: 3S R: 15W

Acres to Burn: 1,282 primary burn acres, 2,323 Phase II acres Distance to Plow: Previous Burn Date: NA

Stand Description: Wet Flatwoods Burn Compartment: Phase I Burn Area: Breakfast Point Mitigation Area

Overstory Type: Slash/Cypress/Titi/Gum. Height to Bottom of Crown: 10 - 30 feet, depending on age of planted/natural stand.

Understory Type: Mixed gallberry/titi. Many wetland herbaceous species present. Dense ground fuels due to thinning of pines.

Fuel Description: Pine duff with grass/shrub/herbaceous fuels. Topography and Soil: Flat topo with interspersed wet depressions, wetland/organic soils.

Purpose of Burn: Wetland Restoration and fuel reduction

Burn Objectives: Kill hardwood/shrub understory and canopy to enhance and promote herbaceous wetland species. Reduce fuels

produced by sylviculture operations of younger slash pine stands. Goal is wetland restoration.

Firing Techniques & Ignition Methods: Aerial Ignition with hand ignition used for back firing and pull-up on block boundaries – Two-day burn possible.

Burn the north half of Phase I on day one, the southern half day two. Day-1 burn buffers phase II and III from potential spot fires.

Needs 50' black-line back-fire to reduce spot-fire potential. Expect heavy smoke due to rough fuel loads and higher fuel moisture on all compartments.

Watch for spot fires into adjacent secondary burn areas Phase II and III. Phase I is primary objective!

NOTE: If helo-torch not available, hand-ignition burn north 350 acres of Phase I with E-W ditch as south burn boundary.

Season: Growing Season - spring into summer. Mortality of young slash pine expected due to scorching and cambium burn.

Personnel Needs: 4 ground crew and burn boss. Equipment Needs: Three fire plows and operators, two 4-wheelers for ground crew.

Maximum Crown Scorch Acceptable: up to 100 % Passed Smoke Screening System: Yes, if burn conducted under SE, S, or SW winds
Listed Possible Smoke-Sensitive Areas: Hwy 79 and West Bay Elementary school with southeast winds. Hwy. C-388 north - S Winds.
Special Precautions: 'Smoke/Fog Ahead' signs ready if needed on Hwy. 79 or C-388. Notify local fire and law enforce. Depts.
Adjacent Landowners to Notify: None Inform FL DOF. Notify PC Beach Fire and Police Depts. and Bay County Sheriff.

Page 2, Burn Compartment: Area: Breakfast Point Mitigation Area

MONITORING & EVALUATION PROCEDURES

PRE-BURN	BURN	POST BURN
Maximum KBDI of 500	Check DOF fire readiness level! Level 1 or 2 preferred.	Evaluate burn of 10-hr fuels (downed slash pine)
WEATHER FACTORS	PREFERRED	ACTUAL
Surface Winds	5 to 15 MPH, SE to SW winds	SEE ATTACHED FIRE WEATHER
Transport Winds	10 to 15, Sea Breeze by mid-day	
Minimum Mixing Height	2000 ft	
Dispersion Index (DAY)	40-70	
Dispersion Index (NIGHT)	1-3	
Maximum Temperature	90 F	
Minimum Relative Humidity	40 %	
Fine Fuel Moisture	>25 %	
Rate of Spread	1 chain/hour- Back, 5-7 C/hr head	
Starting Time	9:00 AM	
Burn Technique	Backing fire, followed by strip head	
Flame Length	3-5' Backing, Some 10-12 expected	
Days Since Rain:	2-3 days, depending on rainfall amt.	

Burn Manager: Date Burned:

PRE-BURN CHECKLIST

FIRE BOSS: Initial each item to indicate compliance.

- ❑ All prescription requisites met (preparation and day of burn).
- ❑ Authorization obtained.
- ❑ Adjacent landowners notified within past seven days of plan to burn.
- ❑ Local contacts made day of burn to advise (FHP, SO, Fire Dept., media, etc.)
- ❑ Smoke screening performed and documented.
- ❑ All equipment required on scene and fully operational.
- ❑ Each crew member has proper personal gear and clothing.

CREW BRIEFING

- ❑ Objectives of burn.
- ❑ Exact area of burn.
- ❑ Hazards discussed (volatile fuels, spotting potential, weak points in perimeter lines, terrain features, etc.)
- ❑ Crew Assignments made.
- ❑ Ignition technique and pattern. Holding method(s).
- ❑ Location of extra equipment, fuel, water, vehicle keys.
- ❑ Authority and communications.
- ❑ Contingencies covered including escape routes or procedures.
- ❑ Sources of nearest assistance. Nearest phone and emergency numbers.
- ❑ Special instructions regarding smoke management, contact with the public and others.
- ❑ Questions.
- ❑ Crew members given opportunity to decline participation (is there anything that is going to prevent full physical performance?).

Prescription Done by: Jim Moyers Certification number: Fire Boss – James Moyers Customer #: **1312342**

Title: Wildlife Biologist Date: Prescription written 7/7/06, modified 9-21-06.

CERTIFIED BURN MANAGER SIGNATURE: 

Fire Weather : 9-22-2006 – Afternoon forecast

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FLZ007-009>013-231200-
INLAND WALTON-HOLMES-WASHINGTON-JACKSON-BAY-CALHOUN-
214 PM CDT FRI SEP 22 2006

                      TONIGHT      SAT          SAT NIGHT    SUN

CLOUD COVER           MCLDY        PCLDY        PCLDY        PCLDY
CHANCE PRECIP(%)      20           30           20           40
PRECIP TYPE           TSTMS        TSTMS        TSTMS        TSTMS
TEMP                  69           89           68           88
RH(%)                 100          56           99           55
20FT WND MPH(AM)                   SE  3                     S  3
20FT WND MPH(PM)      S  8         S 10         S  5         SW 10
PRECIP DURATION       1            1            1            1
PRECIP BEGIN          CONTINUING   12 PM        CONTINUING   12 PM
PRECIP END            2 AM         CONTINUING   11 PM        CONTINUING
PRECIP AMOUNT         0.10-0.25    0.10-0.25    <0.10        0.10-0.25
LAL                   3            3            3            3
CEILING               10000        NO CIG       NO CIG       NO CIG
MIXING HGT(FT-AGL)    300          3700         300          3800
TRANSPORT WIND(MPH)   SE  3        S 14         S  2         SW 10
DISPERSION INDEX      2            62           1            47
MAX LVORI             10           4            10           4

REMARKS...NONE.

.FORECAST FOR DAYS 3 THROUGH 7...

.MONDAY...MOSTLY CLOUDY. CHANCE OF SHOWERS AND THUNDERSTORMS.
LOWS IN THE MID 60S. HIGHS IN THE MID 80S. NORTH WINDS AROUND
10 MPH. CHANCE OF RAIN 40 PERCENT.
.TUESDAY...MOSTLY CLEAR. LOWS IN THE UPPER 50S. HIGHS IN THE MID
80S. NORTH WINDS 5 TO 10 MPH.
.WEDNESDAY...MOSTLY CLEAR. LOWS IN THE UPPER 50S. HIGHS IN THE
MID 80S. LIGHT WINDS BECOMING EAST AROUND 5 MPH IN THE AFTERNOON.
.THURSDAY...PARTLY CLOUDY. LOWS IN THE LOWER 60S. HIGHS IN THE
MID 80S. EAST WINDS 5 TO 10 MPH.
.FRIDAY...MOSTLY CLOUDY. CHANCE OF SHOWERS AND THUNDERSTORMS.
LOWS IN THE LOWER 60S. HIGHS IN THE LOWER 80S. LIGHT WINDS
BECOMING WEST AROUND 5 MPH IN THE AFTERNOON. CHANCE OF RAIN
40 PERCENT.
```

Fire Weather – 9-23-06, Morning of Burn

FLZ007-009>013-231930-
BAY-CALHOUN-HOLMES-INLAND WALTON-JACKSON-WASHINGTON-
INCLUDING THE CITIES OF...BLOUNTSTOWN...BONIFAY...CHIPLEY...
DE FUNIAK SPRINGS...MARIANNA...PANAMA CITY
630 AM CDT SAT SEP 23 2006

	TODAY	TONIGHT	SUN
CLOUD COVER	PCLDY	PCLDY	MCLDY
CHANCE PRECIP(%)	30	20	50
PRECIP TYPE	TSTMS	TSTMS	TSTMS
TEMP	90	72	88
RH(%)	54	98	56
20FT WND MPH(AM)	SE 3		S 2
20FT WND MPH(PM)	S 9	S 8	SW 9
PRECIP DURATION	1	1	2
PRECIP BEGIN	11 AM	CONTINUING	10 AM
PRECIP END	CONTINUING	11 PM	CONTINUING
PRECIP AMOUNT	0.10-0.25	<0.10	0.25-0.50
LAL	3	3	3
CEILING	NO CIG	NO CIG	5000
MIXING HGT(FT-AGL)	3600	700	3400
TRANSPORT WIND(MPH)	S 15	S 6	SW 12
DISPERSION INDEX	64	4	35
MAX LVORI	4	6	4

REMARKS...NONE.

.FORECAST FOR DAYS 3 THROUGH 7...

.MONDAY...PARTLY CLOUDY WITH A 30 PERCENT CHANCE OF SHOWERS AND
THUNDERSTORMS. LOWS IN THE UPPER 60S. HIGHS IN THE MID 80S.
NORTHWEST WINDS 5 TO 10 MPH.
.TUESDAY...MOSTLY CLEAR. LOWS IN THE UPPER 50S. HIGHS IN THE MID 80S.
NORTH WINDS 5 TO 10 MPH.
.WEDNESDAY...MOSTLY CLEAR. LOWS IN THE MID 50S. HIGHS IN THE
UPPER 80S. NORTH WINDS AROUND 5 MPH.
.THURSDAY...PARTLY CLOUDY WITH A SLIGHT CHANCE OF RAIN. LOWS IN THE
UPPER 50S. HIGHS IN THE MID 80S. WEST WINDS AROUND 5 MPH. CHANCE OF
RAIN 20 PERCENT.
.FRIDAY...PARTLY CLOUDY. LOWS IN THE UPPER 50S. HIGHS IN THE MID
80S. NORTHWEST WINDS 5 TO 10 MPH.

Legend

Site Boundary

Roads

N

0 15,000 30,000 60,000 Feet

1:360,000

Figure 1. Location Map

Breakfast Point Mitigation Bank

erc Ecological Resource Consultants, Inc.

MWC 01.18.07
ERC# 04-255

Mechanical Treatment May Include: Selective Harvest, Walkdown, and Third Row Thinning

Monitoring Well
Rain Guage
Surface Water Gauges
Site Boundary
Qualitative Transects
Quantitative Transects
Plant Communities

0 400 800 1,600 2,400 Feet

N

2005 True Color Aerial

1:9,600

Figure 2. 2006 Annual Monitoring Overview

Breakfast Point Mitigation Bank

Ecological Resource Consultants, Inc.

MWC 01.18.2007
ERCM 310

Mechanical Treatment May Include: Selective Harvest, Walkdown, and Third Row Thinning.

Legend:

- Site Boundary
- Rain Guage
- Monitoring Well
- Surface Water Gauges
- Qualitative Transects
- Quantitative Transects
- Plant Communities
- Burn Treatment Only
- Mechanical Treatment Only
- Burn and Mechanical Treatments

0 400 800 1,600 2,400 Feet

N

2005 True Color Aerial

1:9,600

Figure 3. Depicting Completed Tasks

Breakfast Point Mitigation Bank

Ecological Resource Consultants, Inc.

MWC 01.18.2007
ERCM 310